



Supplemental Remedial Investigation (SRI) Report (SRIR)

12 Franklin Street
Brooklyn, New York 11222

April 24, 2024

Prepared for:

Franklin Point LLC
Franklin Point Holding LLC
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Prepared by:

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1. Introduction

Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this Supplemental Remedial Investigation (SRI) Report (SRIR) on behalf of Franklin Point LLC / Franklin Point Holding LLC (referred to herein as the “Volunteer”) for the property located at 12 Franklin Street (Tax Block 2614, Lot 3) in the Greenpoint section of the Borough of Brooklyn in the City and State of New York (Site). The SRI was completed in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved SRI Work Plan (SRIWP) dated February 2, 2024.

This SRIR was prepared to address the requests identified in NYSDEC and New York State Department of Health’s (NYSDOH’s) conditional acceptance of the Remedial Investigation (RI) Report (RIR) prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) dated March 24, 2023, as documented in letter correspondence dated November 9, 2023. This SRIR supplements 1) the RIR; and 2) the November 10, 2023 letter titled “RIR Addendum – Significant Threat Determination,” which was prepared by Roux to document the NYSDEC’s conclusion that the Site was a significant threat.

The SRI was conducted to meet the following objectives:

- **Collect soil samples for emerging contaminant analysis:** Additional soil samples will be collected and analyzed for emerging contaminants including per-and polyfluoroalkyl substances (PFAS) and 1,4-dioxane.
- **Refine understanding of regional and Site hydrogeology:** The NYSDEC understands that the regional groundwater flow direction, based on regional topography, is towards the west, flowing to the Bushwick Inlet and the East River. The current groundwater elevation survey included with the RIR prepared by Langan, indicates groundwater flow direction to be towards the southeast. A groundwater elevation investigation was performed as part of the SRI to determine the direction of groundwater flow and evaluate tidal influence on groundwater flow at the Site, if any.

The SRI was performed in accordance with NYSDEC procedures set forth in the guidance document titled DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010 (DER-10), and complies with all applicable Federal, State, and local laws, regulations, and requirements. Additionally, all work was completed in accordance with the Site-specific health and safety plan (HASP). Per NYSDEC approval, a Community Air Monitoring Plan (CAMP) was not required because all work was performed inside the vacant building.

1.1. SRIR Organization

The remainder of this SRIR is organized as follows:

- Section 2: SRI Methods
- Section 3: SRI Results
- Section 4: Updated Conceptual Site Model for PFAS
- Section 5: References

Additional information regarding Site background, previous investigations at the Site and the human health risk assessment can be found in the March 24, 2023 RIR and the November 10, 2023 Addendum.

1.2 Certification

I, David Kaiser, P.E., certify that I am currently a registered professional engineer in the State of New York as defined in 6 NYCRR Part 375 and that this SRIR was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER-10.

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

<u>David Kaiser, P.E.</u>	_____	_____
NYS Professional Engineer # 097317	Date	Signature

It is a violation of Article 130 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

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2. SRI Methods

The scope of work for the SRI consisted of the following tasks:

1. Emerging Contaminant Soil Sampling; and
2. Groundwater Elevation Monitoring and Tidal Influence Evaluation.

These tasks are described in further detail in the sections below:

2.1 Emerging Contaminant Soil Sampling

At NYSDEC's request, Roux conducted additional soil sampling to address the data gaps in the 2019 Remedial Investigation (RI) conducted by Langan. Twelve soil samples and one duplicate soil sample were collected from the locations shown in Figure 1 between March 5 and 6, 2024, and were analyzed for emerging contaminants including 1,4-dioxane and PFAS. This supplementary soil sampling was intended to ensure that the frequency of emerging contaminants' analytical samples matched that of the other analytes gathered during the RI. Each soil sample was taken from the zero to two feet below ground surface interval beneath the building slab once the slab was removed. Following the NYSDEC April 2023 guidance document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs" (NYSDEC PFAS Guidance), each soil sample was collected using a steel shovel that was decontaminated between sampling locations using a standard two step decontamination method that used detergent (Alconox) and laboratory-supplied clean, PFAS-free water. Soil samples submitted for analysis were placed in laboratory-provided sample jars, placed in an iced cooler, and transported to the Eurofins TestAmerica laboratory under chain-of-custody procedures. Soil analytical data is provided in Tables 1 and 2 and is summarized on Figure 1. Laboratory analytical reports are provided in Appendix A.

2.2 Groundwater Elevation Monitoring and Tidal Influence Evaluation

On March 7, 2024, after the initial manual gauging round of all eight existing monitoring wells at the Site, Roux installed Level TROLL Data Logger Trolls (Trolls) in five monitoring wells (MW04, MW05, MW08, MW10, MW11). The locations of all monitoring wells are shown on Figure 2. To obtain sufficient water level data related to potential tidal influence, the Trolls stayed in place and continuously recorded water level data for two weeks. The Trolls were set to record the water level once every fifteen minutes over the two-week period. On March 22, 2024, the Trolls were removed from the monitoring wells, and Roux completed another round of manual gauging of all eight monitoring wells on Site. The Site-wide manual gauging data and groundwater elevation graphs generated from the Troll data collected of the two-week period are provided in Appendix B. Groundwater contour maps with flow directions for manual gauging data collected on March 7, 2024 and March 22, 2024, are provided as Figures 2 and 3.

3. SRI Results

3.1 Emerging Contaminant Soil Sampling Results

During soil sample collection, there was no evidence of contamination (i.e., staining, odors) observed at any of the sample locations. 1,4-dioxane was not detected in any of the 12 soil samples.

PFAS was detected in 10 of the 12 soil samples. Five samples contained concentrations of perfluorooctanoic acid (PFOA) and/or perfluorooctyl sulfonate (PFOS) above their applicable guidance values as summarized below:

Parameter	Number of Samples Detected in Exceedance of NYSDEC Unrestricted Use Guidance Value ¹	Number of Samples Detected in Exceedance of NYSDEC Commercial Guidance Value ²	Number of Samples Detected in Exceedance of NYSDEC Protection of Groundwater Guidance Value ³	Range of Exceedances above Guidance Values (micrograms per kilogram [µg/kg])	Sample Designation with Highest Concentration
PFOS	4	1	4	1.79 - 1760	RSB-3
PFOA	2	0	1	0.76 - 1.24	RSB-8

Overall, the soil analytical data suggests that as none of the soil samples contained detections of 1,4-dioxane, and, therefore, the exceedances of 1,4-dioxane detected in groundwater during the RI are from an offsite source. Additionally, the detected concentrations of PFOS and PFOA exceeded their NYSDEC Protection of Groundwater Guidance Value in one or more locations. Additionally, the detected concentrations of PFOS and PFOA exceeded their NYSDEC Protection of Groundwater Guidance Value in one or more locations, which may be contributing to the elevated concentrations of PFOS and PFOA in groundwater detected during the RI.

3.1.1 Data Usability

Category B laboratory reports for soil were provided by Eurofins TestAmerica and were provided to Data Validation Services for validation and preparation of a data usability summary report (DUSR). Laboratory analytical data reports are included as Appendix A. The data validation has not been completed as of the date of this draft SRIR.

3.2 Groundwater Elevation Monitoring

The manual groundwater elevation data collected during the SRI generally supports the data collected during the RI. During the March 7, 2024 gauging event, groundwater levels were observed at elevations ranging from approximately 1.99 to 7.74 feet NAVD88, with flow direction trending toward the south-southeast. Similarly, during the March 22, 2024 gauging event, the groundwater levels were observed at elevations ranging from about 1.89 to 6.25 feet NAVD88, with flow direction trending toward the south. As shown on the graphs in Appendix B, tidal influence across the Site appears to be negligible. However, groundwater elevations appear to respond to precipitation events due to the limited thickness of the unit and the presence

¹ The Unrestricted Guidance Value is 0.66 µg/kg for PFOA and 0.88 µg/kg for PFOS.

² The Commercial Guidance Value is 500 µg/kg for PFOA and 440 µg/kg for PFOS.

³ The Protection of Groundwater Guidance Value is 0.8 µg/kg for PFOA and 1.0 µg/kg for PFOS.

of the shallow, underlying low permeability layer. As a result, the shallow water bearing unit in which the Site wells were screened has been characterized as exhibiting perched water-table characteristics. The regional aquifer is expected to flow south-southwest towards the historic Bushwick Creek bed and the current Bushwick Inlet.

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4. Updated Conceptual Site Model for PFAS

Potential Sources of PFAS Contamination: The highest concentration of PFAS compounds (specifically PFOS) were detected in Former Lot 8 (8 Meserole Avenue) at the Site. This space operated as an electroplating facility from 1965 until 2012. Electroplating operations also occurred in Former Lot 1 (7 North 15th Street) for a shorter period of time (1987-2006). PFAS (predominately PFOS) was utilized in the electroplating industry as wetting agents, fume suppressants, dispersion products, coating additives, corrosion inhibitors, and more. PFAS compounds are primarily released into the environment from metal finishing facilities through wastewater. These compounds serve as agents in chemical baths during metal finishing processes, consequently entering the discharged water when the baths are changed. Additionally, air emissions play a significant role, as PFAS can become aerosolized from finishing tanks and then released through facility vents (Gilchrist, 2022).

The remainder of the Conceptual Site Model remains consistent as described in the 2019 RIR, including the evaluation of human health exposure.

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5. References

Gilchrist, Maya. Minnesota Pollution Control Agency. PFAS in the metal plating and finishing industry. December 2022. [PFAS in the metal plating and finishing industry \(state.mn.us\)](https://state.mn.us/pfas-in-the-metal-plating-and-finishing-industry)

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Supplemental Remedial Investigation (SRI) Report (SRIR)
12 Franklin Street, Brooklyn, New York

FIGURES

1. Supplemental RI Soil Sample Results
2. Groundwater Elevations and Contour Map – March 7, 2024
3. Groundwater Elevations and Contour Map – March 22, 2024

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RSB-1	3/5/24
Depth (ft bls)	0-2
PFAS (µg/kg)	
Perfluorooctanesulfonic acid (PFOS)	24.2
Perfluorooctanoic acid (PFOA)	0.097 J
SVOCs (mg/kg)	
1,4-Dioxane	0.038 U

RSB-7	3/6/24
Depth (ft bls)	0-2
PFAS (µg/kg)	
Perfluorooctanesulfonic acid (PFOS)	0.34
Perfluorooctanoic acid (PFOA)	0.1 J
SVOCs (mg/kg)	
1,4-Dioxane	0.037 U

RSB-8	3/6/24
Depth (ft bls)	0-2
PFAS (µg/kg)	
Perfluorooctanesulfonic acid (PFOS)	0.88
Perfluorooctanoic acid (PFOA)	1.24
SVOCs (mg/kg)	
1,4-Dioxane	0.037 U

RSB-3	3/5/24
Depth (ft bls)	0-2
PFAS (µg/kg)	
Perfluorooctanesulfonic acid (PFOS)	1760
Perfluorooctanoic acid (PFOA)	0.31
SVOCs (mg/kg)	
1,4-Dioxane	0.041 U

RSB-9	3/6/24
Depth (ft bls)	0-2
PFAS (µg/kg)	
Perfluorooctanesulfonic acid (PFOS)	0.1 J
Perfluorooctanoic acid (PFOA)	0.31
SVOCs (mg/kg)	
1,4-Dioxane	0.037 U

RSB-2	3/5/24
Depth (ft bls)	0-2
PFAS (µg/kg)	
Perfluorooctanesulfonic acid (PFOS)	12.3
Perfluorooctanoic acid (PFOA)	0.19 U
SVOCs (mg/kg)	
1,4-Dioxane	0.04 U

RSB-10	3/6/24
Depth (ft bls)	0-2
PFAS (µg/kg)	
Perfluorooctanesulfonic acid (PFOS)	1.79
Perfluorooctanoic acid (PFOA)	0.76
SVOCs (mg/kg)	
1,4-Dioxane	0.038 U

RSB-4	3/5/24
Depth (ft bls)	0-2
PFAS (µg/kg)	
Perfluorooctanesulfonic acid (PFOS)	0.19 U
Perfluorooctanoic acid (PFOA)	0.19 U
SVOCs (mg/kg)	
1,4-Dioxane	0.039 U

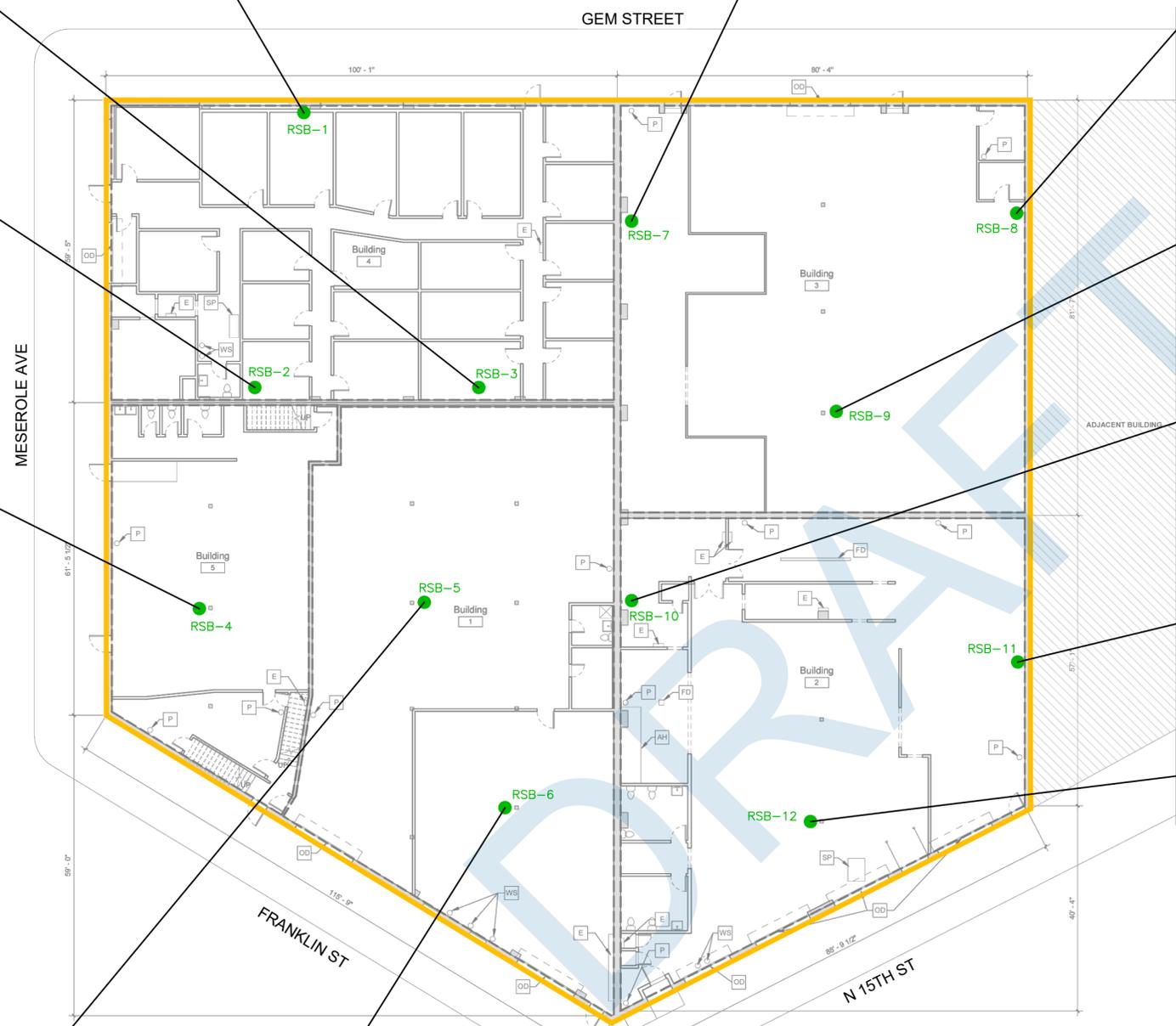
RSB-11	3/6/24
Depth (ft bls)	0-2
PFAS (µg/kg)	
Perfluorooctanesulfonic acid (PFOS)	0.21 U
Perfluorooctanoic acid (PFOA)	0.21 U
SVOCs (mg/kg)	
1,4-Dioxane	0.037 U

RSB-5	3/5/24	3/5/2024
Depth (ft bls)	0-2	0-2 DUP
PFAS (µg/kg)		
Perfluorooctanesulfonic acid (PFOS)	0.61	NS
Perfluorooctanoic acid (PFOA)	0.13 J	NS
SVOCs (mg/kg)		
1,4-Dioxane	0.038 U	0.039 U

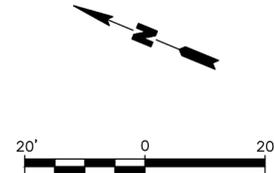
RSB-6	3/5/24	3/5/24
Depth (ft bls)	0-2	0-2 DUP
PFAS (µg/kg)		
Perfluorooctanesulfonic acid (PFOS)	0.42	0.29
Perfluorooctanoic acid (PFOA)	0.19 U	0.2 U
SVOCs (mg/kg)		
1,4-Dioxane	0.04 U	NS

Parameter	NYSDEC Part 375 Unrestricted Use Guidance Values	NYSDEC Part 375 Restricted Residential Guidance Values	NYSDEC Part 375 Protection of Groundwater Guidance Values	Units
PFAS				
Perfluorooctanesulfonic acid (PFOS)	0.88	440	1	µg/kg
Perfluorooctanoic acid (PFOA)	0.66	500	0.8	µg/kg
SVOCs				
1,4-Dioxane	0.1	130	0.1	mg/kg

mg/kg – MILLIGRAMS PER KILOGRAM
µg/kg – MICROGRAMS PER KILOGRAM
NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
J – ESTIMATED VALUE
DUP – DUPLICATE SAMPLE
SVOCs – SEMIVOLATILE ORGANIC COMPOUNDS
PFAS – PER- AND POLYFLUOROALKYL SUBSTANCES
NS – NOT SAMPLED
FT BLS – FEET BELOW LAND SURFACE



LEGEND
 SITE BOUNDARY
 EMERGING CONTAMINANT SOIL SAMPLING LOCATION



Title: **SUPPLEMENTAL RI SOIL SAMPLE RESULTS**
12 FRANKLIN STREET
BROOKLYN, NEW YORK 11222

Prepared for: **FRANKLIN POINT HOLDING LLC**

Compiled by: R.H.	Date: 4/23/2024	FIGURE 1
Prepared by: G.M.	Scale: AS SHOWN	
Project Mgr: R.H.	Project: 4170.0001Y000	
File: 4170.0001Y114.01.DWG		

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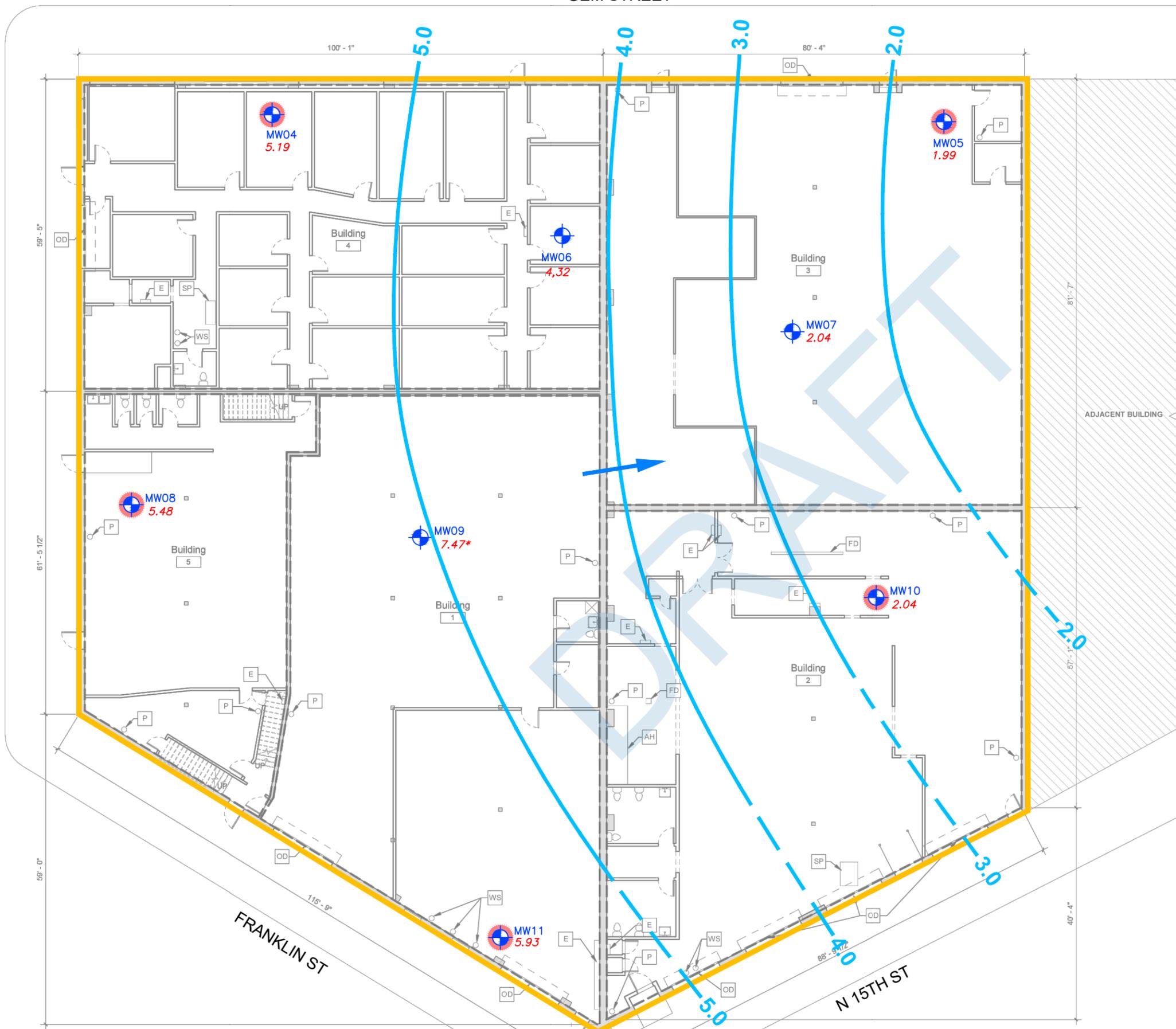
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MESEROLE AVE

GEM STREET

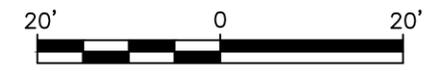
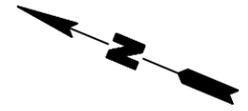
FRANKLIN ST

N 15TH ST



LEGEND

-  SITE BOUNDARY
-  MONITORING WELL LOCATION
-  MONITORING WELL LOCATION WITH LEVEL TROLL DATA LOGGER INSTALLED
- 1.99 CORRECTED GROUNDWATER ELEVATION (FT ABOVE MEAN SEA LEVEL)
- 7.47* NOT USED IN CONTOURING
- 4.0  LINE OF EQUAL GROUNDWATER ELEVATION (FT ABOVE MEAN SEA LEVEL) (DASHED WHERE INFERRED)
-  APPROXIMATE GROUNDWATER FLOW DIRECTION



<p>Title:</p> <h3 style="margin: 0;">GROUNDWATER ELEVATIONS AND CONTOUR MAP</h3> <p style="margin: 0;">MARCH 7, 2024</p> <p style="margin: 0;">12 FRANKLIN STREET BROOKLYN, NY 11222</p>										
<p>Prepared for:</p> <p style="margin: 0;">FRANKLIN POINT HOLDING LLC</p>										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">Compiled by: J.R.</td> <td style="font-size: 8px;">Date: 4/23/2024</td> </tr> <tr> <td style="font-size: 8px;">Prepared by: B.H.C.</td> <td style="font-size: 8px;">Scale: AS SHOWN</td> </tr> <tr> <td style="font-size: 8px;">Project Mgr: R.H.</td> <td style="font-size: 8px;">Project: 4170.0001Y000</td> </tr> <tr> <td colspan="2" style="font-size: 8px;">File: 4170.0001Y115.02.DWG</td> </tr> </table>	Compiled by: J.R.	Date: 4/23/2024	Prepared by: B.H.C.	Scale: AS SHOWN	Project Mgr: R.H.	Project: 4170.0001Y000	File: 4170.0001Y115.02.DWG		<p>FIGURE</p> <h2 style="margin: 0;">2</h2>
Compiled by: J.R.	Date: 4/23/2024									
Prepared by: B.H.C.	Scale: AS SHOWN									
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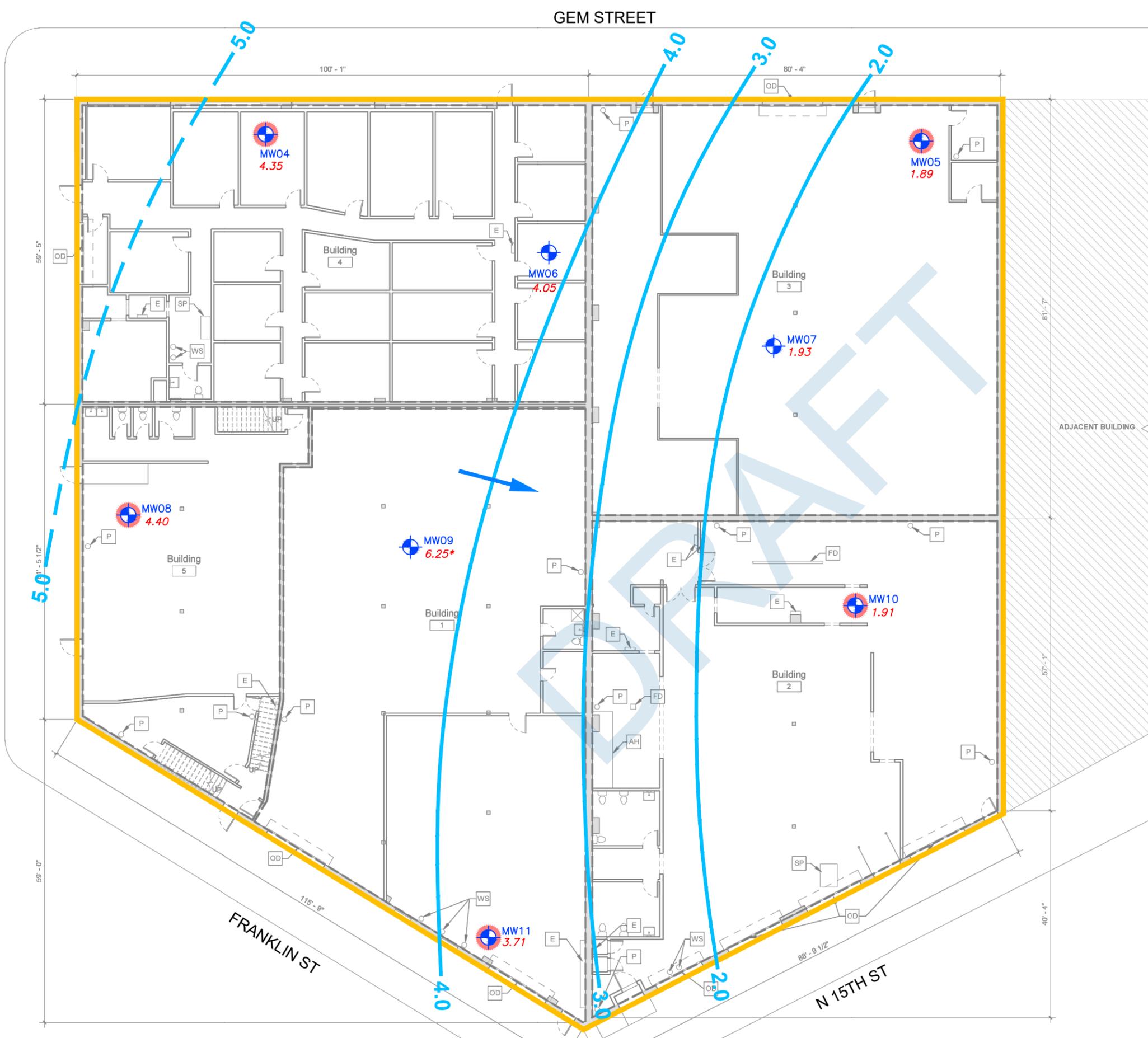
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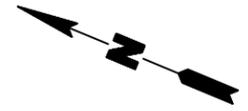
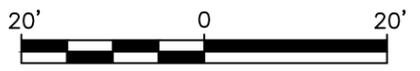
FRANKLIN ST

N 15TH ST



LEGEND

- SITE BOUNDARY
- MONITORING WELL LOCATION
- MONITORING WELL LOCATION WITH LEVEL TROLL DATA LOGGER INSTALLED
- 4.35 CORRECTED GROUNDWATER ELEVATION (FT ABOVE MEAN SEA LEVEL)
- 6.25* NOT USED IN CONTOURING
- 4.0 LINE OF EQUAL GROUNDWATER ELEVATION (FT ABOVE MEAN SEA LEVEL) (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION



Title:			GROUNDWATER ELEVATIONS AND CONTOUR MAP MARCH 22, 2024
12 FRANKLIN STREET BROOKLYN, NY 11222			
Prepared for:			FRANKLIN POINT HOLDING LLC
	Compiled by: J.R.	Date: 4/23/2024	FIGURE 3
	Prepared by: B.H.C.	Scale: AS SHOWN	
	Project Mgr: R.H.	Project: 4170.0001Y000	
	File: 4170.0001Y115.02.DWG		

Supplemental Remedial Investigation (SRI) Report (SRIR)
12 Franklin Street, Brooklyn, New York

TABLES

1. Summary of 1,4-Dioxane in Soil
2. Summary of Per- and Polyfluoroalkyl Substances in Soil

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Notes Utilized Throughout Tables

Soil Tables

J - Estimated value

U - The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit

ft bls - Feet below land surface

FD - Duplicate sample

mg/kg - Milligrams per kilogram

µg/kg - Micrograms per kilogram

NYSDEC - New York State Department of Environmental Conservation

SCO - Soil Cleanup Objectives

-- No SCO available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Red data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater SCO

Per- and Polyfluoroalkyl Substances

GV - Guidance Values issued January 2020 and updated March 2023

Bold data indicates that parameter exceeded the NYSDEC Unrestricted Use Guidance Values

Shaded data indicates that parameter exceeded the NYSDEC Restricted Residential Guidance Values

Red data indicates that parameter exceeded the NYSDEC Protection of Groundwater Guidance Values

Table 1. Summary of 1,4-Dioxane in Soil, 12 Franklin Street, Brooklyn, New York

					Sample Designation:	RSB-1	RSB-2	RSB-3	RSB-4	RSB-5	RSB-5	RSB-6	RSB-7
					Sample Date:	03/06/2024	03/06/2024	03/06/2024	03/06/2024	03/06/2024	03/06/2024	03/06/2024	03/06/2024
					Sample Depth (ft bls):	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
					Normal Sample or Field Duplicate:	N	N	N	N	N	FD	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units									
1,4-Dioxane (P-Dioxane)	0.1	130	0.1	MG/KG	0.038 U	0.04 U	0.041 U	0.039 U	0.038 U	0.039 U	0.04 U	0.037 U	

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Table 1. Summary of 1,4-Dioxane in Soil, 12 Franklin Street, Brooklyn, New York

					Sample Designation:	RSB-8	RSB-9	RSB-10	RSB-11	RSB-12
					Sample Date:	03/06/2024	03/06/2024	03/06/2024	03/06/2024	03/06/2024
					Sample Depth (ft bls):	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
					Normal Sample or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units						
1,4-Dioxane (P-Dioxane)	0.1	130	0.1	MG/KG	0.037 U	0.037 U	0.038 U	0.037 U	0.04 U	

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Table 2. Summary of Per- and Polyfluoroalkyl Substances in Soil, 12 Franklin Street, Brooklyn, New York

					Sample Designation:	RSB-1	RSB-2	RSB-3	RSB-4	RSB-5
					Sample Date:	03/05/2024	03/05/2024	03/05/2024	03/05/2024	03/05/2024
					Sample Depth (ft bls):	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
					Normal Sample or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units						
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	--	--	--	UG/KG	0.76 U	0.76 U	1.08 U	0.77 U	0.8 U	
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	UG/KG	1.9 U	1.9 U	2.69 U	1.91 U	1.99 U	
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	UG/KG	1.9 U	1.9 U	2.69 U	1.91 U	1.99 U	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	--	--	UG/KG	4.75 U	4.75 U	6.73 U	4.79 U	4.98 U	
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	--	--	UG/KG	4.75 U	4.75 U	6.73 U	4.79 U	4.98 U	
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	--	--	UG/KG	0.95 U	0.95 U	1.35 U	0.96 U	1 U	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	UG/KG	0.76 U	0.76 U	1.08 U	0.77 U	0.8 U	
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	--	--	--	UG/KG	0.76 U	0.76 U	1.08 U	0.77 U	0.8 U	
N-ethyl perfluoro-1-octanesulfonamide	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
N-ethyl perfluorooctanesulfonamidoacetic acid	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
N-methyl perfluoro-1-octanesulfonamide	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	--	UG/KG	0.38 U	0.38 U	0.54 U	0.38 U	0.4 U	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	--	--	--	UG/KG	0.38 U	0.38 U	0.54 U	0.38 U	0.4 U	
Perfluoro(2-Propoxypropanoic) Acid	--	--	--	UG/KG	0.76 U	0.76 U	1.08 U	0.77 U	0.8 U	
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	--	UG/KG	0.38 U	0.38 U	0.54 U	0.38 U	0.4 U	
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	--	UG/KG	0.38 U	0.38 U	0.54 U	0.38 U	0.4 U	
Perfluorobutanesulfonic acid (PFBS)	--	--	--	UG/KG	0.2	0.19 U	15.3	0.19 U	0.2 U	
Perfluorobutanoic Acid	--	--	--	UG/KG	0.76 U	0.76 U	1.08 U	0.77 U	0.8 U	
Perfluorodecane Sulfonic Acid	--	--	--	UG/KG	0.19 U	0.19 U	1.33	0.19 U	0.2 U	
Perfluorodecanoic acid (PFDA)	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
Perfluorododecane sulfonate (PFDoS)	--	--	--	UG/KG	0.19 U	0.19 U	0.069 J	0.19 U	0.2 U	
Perfluorododecanoic acid (PFDoA)	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
Perfluoroheptane Sulfonate (PFHPS)	--	--	--	UG/KG	0.21	0.19 U	15.4	0.19 U	0.2 U	
Perfluoroheptanoic acid (PFHpA)	--	--	--	UG/KG	0.19 U	0.19 U	0.079 J	0.19 U	0.2 U	
Perfluorohexanesulfonic acid (PFHxS)	--	--	--	UG/KG	0.066 J	0.079 J	4.64	0.19 U	0.2 U	
Perfluorohexanoic acid (PFHxA)	--	--	--	UG/KG	0.07 J	0.19 U	0.11 J	0.19 U	0.2 U	
Perfluorononanesulfonic Acid (PFNS)	--	--	--	UG/KG	0.19 U	0.19 U	0.28	0.19 U	0.2 U	
Perfluorononanoic acid (PFNA)	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
Perfluorooctane Sulfonamide (FOSA)	--	--	--	UG/KG	0.19 U	0.19 U	13.5 U	0.19 U	0.2 U	
Perfluorooctanesulfonic acid (PFOS)	0.88	440	1	UG/KG	24.2	12.3	1760	0.19 U	0.61	
Perfluorooctanoic acid (PFOA)	0.66	500	0.8	UG/KG	0.097 J	0.19 U	0.31	0.19 U	0.13 J	
Perfluoropentanesulfonic Acid (PFPeS)	--	--	--	UG/KG	0.19 U	0.19 U	0.28	0.19 U	0.2 U	

Table 2. Summary of Per- and Polyfluoroalkyl Substances in Soil, 12 Franklin Street, Brooklyn, New York

					Sample Designation:	RSB-1	RSB-2	RSB-3	RSB-4	RSB-5
					Sample Date:	03/05/2024	03/05/2024	03/05/2024	03/05/2024	03/05/2024
					Sample Depth (ft bls):	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
					Normal Sample or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units						
Perfluoropentanoic Acid (PFPeA)	--	--	--	UG/KG	0.38 U	0.38 U	0.54 U	0.38 U	0.4 U	
Perfluorotetradecanoic acid (PFTA)	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
Perfluorotridecanoic Acid (PFTriA)	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
Perfluoroundecanoic Acid (PFUnA)	--	--	--	UG/KG	0.19 U	0.19 U	0.27 U	0.19 U	0.2 U	
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	--	--	UG/KG	0.76 U	0.76 U	1.08 U	0.77 U	0.8 U	
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	--	--	--	UG/KG	0.76 U	0.76 U	1.08 U	0.77 U	0.8 U	
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	--	--	UG/KG	0.76 U	0.76 U	1.08 U	0.77 U	0.8 U	

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Table 2. Summary of Per- and Polyfluoroalkyl Substances in Soil, 12 Franklin Street, Brooklyn, New York

					Sample Designation:	RSB-6	RSB-6	RSB-7	RSB-8	RSB-9
					Sample Date:	03/05/2024	03/05/2024	03/06/2024	03/06/2024	03/06/2024
					Sample Depth (ft bls):	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
					Normal Sample or Field Duplicate:	N	FD	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units						
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	--	--	--	UG/KG	0.77 U	0.78 U	0.71 U	0.74 U	0.7 U	
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	UG/KG	1.94 U	1.95 U	1.78 U	1.85 U	1.75 U	
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	UG/KG	1.94 U	1.95 U	1.78 U	1.85 U	1.75 U	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	--	--	UG/KG	4.84 U	4.88 U	4.46 U	4.63 U	4.38 U	
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	--	--	UG/KG	4.84 U	4.88 U	4.46 U	4.63 U	4.38 U	
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	--	--	UG/KG	0.97 U	0.98 U	0.89 U	0.93 U	0.88 U	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	UG/KG	0.77 U	0.78 U	0.71 U	0.74 U	0.7 U	
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	--	--	--	UG/KG	0.77 U	0.78 U	0.71 U	0.74 U	0.7 U	
N-ethyl perfluoro-1-octanesulfonamide	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
N-ethyl perfluorooctanesulfonamidoacetic acid	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
N-methyl perfluoro-1-octanesulfonamide	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	--	UG/KG	0.39 U	0.39 U	0.36 U	0.37 U	0.35 U	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	--	--	--	UG/KG	0.39 U	0.39 U	0.36 U	0.37 U	0.35 U	
Perfluoro(2-Propoxypropanoic) Acid	--	--	--	UG/KG	0.77 U	0.78 U	0.71 U	0.74 U	0.7 U	
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	--	UG/KG	0.39 U	0.39 U	0.36 U	0.37 U	0.35 U	
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	--	UG/KG	0.39 U	0.39 U	0.36 U	0.37 U	0.35 U	
Perfluorobutanesulfonic acid (PFBS)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluorobutanoic Acid	--	--	--	UG/KG	0.77 U	0.78 U	0.71 U	0.74 U	0.7 U	
Perfluorodecane Sulfonic Acid	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluorodecanoic acid (PFDA)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluorododecane sulfonate (PFDoS)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluorododecanoic acid (PFDoA)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluoroheptane Sulfonate (PFHPS)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluoroheptanoic acid (PFHpA)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.096 J	0.1 J	
Perfluorohexanesulfonic acid (PFHxS)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.069 J	0.18 U	
Perfluorohexanoic acid (PFHxA)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.052 J	
Perfluorononanesulfonic Acid (PFNS)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluorononanoic acid (PFNA)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluorooctane Sulfonamide (FOSA)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluorooctanesulfonic acid (PFOS)	0.88	440	1	UG/KG	0.42	0.29	0.34	0.88	0.1 J	
Perfluorooctanoic acid (PFOA)	0.66	500	0.8	UG/KG	0.19 U	0.2 U	0.1 J	1.24	0.31	
Perfluoropentanesulfonic Acid (PFPeS)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	

Table 2. Summary of Per- and Polyfluoroalkyl Substances in Soil, 12 Franklin Street, Brooklyn, New York

					Sample Designation:	RSB-6	RSB-6	RSB-7	RSB-8	RSB-9
					Sample Date:	03/05/2024	03/05/2024	03/06/2024	03/06/2024	03/06/2024
					Sample Depth (ft bls):	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
					Normal Sample or Field Duplicate:	N	FD	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units						
Perfluoropentanoic Acid (PFPeA)	--	--	--	UG/KG	0.39 U	0.39 U	0.36 U	0.37 U	0.35 U	
Perfluorotetradecanoic acid (PFTA)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluorotridecanoic Acid (PFTriA)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Perfluoroundecanoic Acid (PFUnA)	--	--	--	UG/KG	0.19 U	0.2 U	0.18 U	0.19 U	0.18 U	
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	--	--	UG/KG	0.77 U	0.78 U	0.71 U	0.74 U	0.7 U	
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	--	--	--	UG/KG	0.77 U	0.78 U	0.71 U	0.74 U	0.7 U	
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	--	--	UG/KG	0.77 U	0.78 U	0.71 U	0.74 U	0.7 U	

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Table 2. Summary of Per- and Polyfluoroalkyl Substances in Soil, 12 Franklin Street, Brooklyn, New York

					Sample Designation:	RSB-10	RSB-11	RSB-12
					Sample Date:	03/06/2024	03/06/2024	03/06/2024
					Sample Depth (ft bls):	0 - 2	0 - 2	0 - 2
					Normal Sample or Field Duplicate:	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	--	--	--	UG/KG	0.76 U	0.83 U	0.77 U	
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	UG/KG	1.91 U	2.08 U	1.93 U	
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	UG/KG	1.91 U	2.08 U	1.93 U	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	--	--	UG/KG	4.77 U	5.21 U	4.84 U	
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	--	--	UG/KG	4.77 U	5.21 U	4.84 U	
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	--	--	UG/KG	0.95 U	1.04 U	0.97 U	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	UG/KG	0.76 U	0.83 U	0.77 U	
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	--	--	--	UG/KG	0.76 U	0.83 U	0.77 U	
N-ethyl perfluoro-1-octanesulfonamide	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
N-ethyl perfluorooctanesulfonamidoacetic acid	--	--	--	UG/KG	1.33	0.21 U	0.19 U	
N-methyl perfluoro-1-octanesulfonamide	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	--	UG/KG	0.38 U	0.42 U	0.39 U	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	--	--	--	UG/KG	0.38 U	0.42 U	0.39 U	
Perfluoro(2-Propoxypropanoic) Acid	--	--	--	UG/KG	0.76 U	0.83 U	0.77 U	
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	--	UG/KG	0.38 U	0.42 U	0.39 U	
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	--	UG/KG	0.38 U	0.42 U	0.39 U	
Perfluorobutanesulfonic acid (PFBS)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluorobutanoic Acid	--	--	--	UG/KG	0.76 U	0.83 U	0.77 U	
Perfluorodecane Sulfonic Acid	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluorodecanoic acid (PFDA)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluorododecane sulfonate (PFDoDS)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluorododecanoic acid (PFDoA)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluoroheptane Sulfonate (PFHPS)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluoroheptanoic acid (PFHpA)	--	--	--	UG/KG	0.091 J	0.21 U	0.19 U	
Perfluorohexanesulfonic acid (PFHxS)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluorohexanoic acid (PFHxA)	--	--	--	UG/KG	0.19 U	0.21 U	0.061 J	
Perfluorononanesulfonic Acid (PFNS)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluorononanoic acid (PFNA)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluorooctane Sulfonamide (FOSA)	--	--	--	UG/KG	0.098 J	0.21 U	0.19 U	
Perfluorooctanesulfonic acid (PFOS)	0.88	440	1	UG/KG	1.79	0.21 U	0.28	
Perfluorooctanoic acid (PFOA)	0.66	500	0.8	UG/KG	0.76	0.21 U	0.55	
Perfluoropentanesulfonic Acid (PFPeS)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	

Table 2. Summary of Per- and Polyfluoroalkyl Substances in Soil, 12 Franklin Street, Brooklyn, New York

					Sample Designation:	RSB-10	RSB-11	RSB-12
					Sample Date:	03/06/2024	03/06/2024	03/06/2024
					Sample Depth (ft bls):	0 - 2	0 - 2	0 - 2
					Normal Sample or Field Duplicate:	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Perfluoropentanoic Acid (PFPeA)	--	--	--	UG/KG	0.38 U	0.42 U	0.39 U	
Perfluorotetradecanoic acid (PFTA)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluorotridecanoic Acid (PFTriA)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Perfluoroundecanoic Acid (PFUnA)	--	--	--	UG/KG	0.19 U	0.21 U	0.19 U	
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	--	--	UG/KG	0.76 U	0.83 U	0.77 U	
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	--	--	--	UG/KG	0.76 U	0.83 U	0.77 U	
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	--	--	UG/KG	0.76 U	0.83 U	0.77 U	

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Supplemental Remedial Investigation (SRI) Report (SRIR)
12 Franklin Street, Brooklyn, New York

APPENDICES

- A. Laboratory Analytical Reports
- B. Site-wide Manual Gauging Data, LevelTroll Raw Data and Groundwater Elevation Graphs

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Supplemental Remedial Investigation (SRI) Report (SRIR)
12 Franklin Street, Brooklyn, New York

APPENDIX A

Laboratory Analytical Reports

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Rachel Henke
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

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JOB DESCRIPTION

12 Franklin Street, Brooklyn, NY

JOB NUMBER

460-299436-1

Eurofins Edison

Job Notes

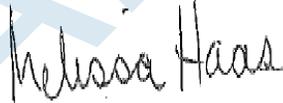
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Compliance Statement

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.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
*	Duplicate RPD exceeds control limits
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Roux Environmental Eng & Geology DPC
Project: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Job ID: 460-299436-1

Eurofins Edison

Job Narrative 460-299436-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/5/2024 7:00 PM. 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 time was 2.4°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

The COC was incorrect - the sample IDs were missing a dash after the "RSB".

Method 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Samples RSB-1_0-2_P (460-299436-1), RSB-3_0-2_P (460-299436-2), RSB-2_0-2_P (460-299436-3), RSB-6_0-2_P (460-299436-4), DUP_03052024 (460-299436-5), RSB-5_0-2_P (460-299436-6), RSB-5_0-2_P (460-299436-6MS), RSB-5_0-2_P (460-299436-6MSD), RSB-4_0-2_P (460-299436-7) and FB_03052024 (460-299436-8) were analyzed for Per- and Polyfluoroalkyl Substances by LC/MS/MS. The samples were prepared on 3/11/2024 and analyzed on 3/11/2024 and 3/14/2024.

Sample RSB-3_0-2_P (460-299436-2)[50x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Isotope Dilution Analyte (IDA) 13C8 FOSA recovery was outside the method recommended limit for the following sample: RSB-3_0-2_P (460-299436-2). Since this was likely due to matrix effects, samples were analyzed at a dilution and may have elevated RLs.

Method Moisture - Percent Moisture

Samples RSB-1_0-2_P (460-299436-1), RSB-3_0-2_P (460-299436-2), RSB-2_0-2_P (460-299436-3), RSB-6_0-2_P (460-299436-4), DUP_03052024 (460-299436-5), RSB-5_0-2_P (460-299436-6) and RSB-4_0-2_P (460-299436-7) were analyzed for Percent Moisture. The samples were analyzed on 3/12/2024.

Eurofins Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-1_0-2_P

Lab Sample ID: 460-299436-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.070	J	0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.097	J	0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.20		0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.066	J	0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.21		0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	24.2		0.19	0.048	ug/Kg	1	✳	1633	Total/NA

Client Sample ID: RSB-3_0-2_P

Lab Sample ID: 460-299436-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.11	J	0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.079	J	0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.31		0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	15.3		0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.28		0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.64		0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	15.4		0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluorononanesulfonic acid (PFNS)	0.28		0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluorododecanesulfonic acid (PFDoS)	0.069	J	0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluorodecanesulfonic acid (PFDS)	1.33		0.27	0.067	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL3	1760		13.5	3.36	ug/Kg	50	✳	1633	Total/NA

Client Sample ID: RSB-2_0-2_P

Lab Sample ID: 460-299436-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.079	J	0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12.3		0.19	0.048	ug/Kg	1	✳	1633	Total/NA

Client Sample ID: RSB-6_0-2_P

Lab Sample ID: 460-299436-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.42		0.19	0.048	ug/Kg	1	✳	1633	Total/NA

Client Sample ID: DUP_03052024

Lab Sample ID: 460-299436-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.29		0.20	0.049	ug/Kg	1	✳	1633	Total/NA

Client Sample ID: RSB-5_0-2_P

Lab Sample ID: 460-299436-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.13	J	0.20	0.050	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.61		0.20	0.050	ug/Kg	1	✳	1633	Total/NA

Client Sample ID: RSB-4_0-2_P

Lab Sample ID: 460-299436-7

No Detections.

Client Sample ID: FB_03052024

Lab Sample ID: 460-299436-8

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-1_0-2_P

Lab Sample ID: 460-299436-1

Date Collected: 03/05/24 09:40

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 86.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorohexanoic acid (PFHxA)	0.070	J	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorooctanoic acid (PFOA)	0.097	J	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorotridecanoic acid (PFTTrDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorotetradecanoic acid (PFTTeDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorobutanesulfonic acid (PFBS)	0.20		0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.066	J	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluoroheptanesulfonic acid (PFHpS)	0.21		0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorooctanesulfonic acid (PFOS)	24.2		0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.90	U	1.90	0.48	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.90	U	1.90	0.48	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-1_0-2_P

Lab Sample ID: 460-299436-1

Date Collected: 03/05/24 09:40

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 86.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.95	U	0.95	0.24	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.75	U	4.75	1.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.75	U	4.75	1.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C5 PFPeA	116		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C5 PFHxA	96.3		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C4 PFHpA	114		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C8 PFOA	104		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C9 PFNA	84.0		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C6 PFDA	86.2		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C7 PFUnA	85.6		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C2 PFTeDA	56.2		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C3 PFBS	90.1		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C3 PFHxS	94.1		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C8 PFOS	92.1		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C8 FOSA	100		20 - 150	03/11/24 08:47	03/11/24 20:24	1
d3-NMeFOSAA	92.2		20 - 150	03/11/24 08:47	03/11/24 20:24	1
d5-NEtFOSAA	80.9		20 - 150	03/11/24 08:47	03/11/24 20:24	1
M2-4:2 FTS	109		20 - 150	03/11/24 08:47	03/11/24 20:24	1
M2-6:2 FTS	115		20 - 150	03/11/24 08:47	03/11/24 20:24	1
M2-8:2 FTS	104		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C3 HFPO-DA	105		20 - 150	03/11/24 08:47	03/11/24 20:24	1
d7-N-MeFOSE-M	94.2		20 - 150	03/11/24 08:47	03/11/24 20:24	1
d9-N-EtFOSE-M	86.1		20 - 150	03/11/24 08:47	03/11/24 20:24	1
d5-NEtPFOSA	67.6		20 - 150	03/11/24 08:47	03/11/24 20:24	1
d3-NMePFOSA	78.2		20 - 150	03/11/24 08:47	03/11/24 20:24	1
13C2-PFDoDA	62.3		20 - 150	03/11/24 08:47	03/11/24 20:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	86.5		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	13.5		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-3_0-2_P

Lab Sample ID: 460-299436-2

Date Collected: 03/05/24 09:55

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 45.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.08	U	1.08	0.27	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluoropentanoic acid (PFPeA)	0.54	U	0.54	0.13	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorohexanoic acid (PFHxA)	0.11	J	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-3_0-2_P

Lab Sample ID: 460-299436-2

Date Collected: 03/05/24 09:55

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 45.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	0.079	J	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorooctanoic acid (PFOA)	0.31		0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorotridecanoic acid (PFTrDA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorotetradecanoic acid (PFTeDA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorobutanesulfonic acid (PFBS)	15.3		0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluoropentanesulfonic acid (PFPeS)	0.28		0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorohexanesulfonic acid (PFHxS)	4.64		0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluoroheptanesulfonic acid (PFHpS)	15.4		0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorononanesulfonic acid (PFNS)	0.28		0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorododecanesulfonic acid (PFDoS)	0.069	J	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.08	U	1.08	0.27	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.08	U	1.08	0.27	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.08	U	1.08	0.27	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.27	U	0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.69	U	2.69	0.67	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.69	U	2.69	0.67	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.08	U	1.08	0.27	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.08	U	1.08	0.27	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.54	U	0.54	0.13	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.54	U	0.54	0.13	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.08	U	1.08	0.27	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.08	U	1.08	0.27	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.54	U	0.54	0.13	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.35	U	1.35	0.34	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-3_0-2_P

Lab Sample ID: 460-299436-2

Date Collected: 03/05/24 09:55

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 45.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	6.73	U	6.73	1.68	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	6.73	U	6.73	1.68	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluorodecanesulfonic acid (PFDS)	1.33		0.27	0.067	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.54	U	0.54	0.13	ug/Kg	☼	03/11/24 08:47	03/11/24 20:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	102		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C5 PFPeA	135		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C5 PFHxA	99.6		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C4 PFHpA	132		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C8 PFOA	103		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C9 PFNA	88.9		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C6 PFDA	82.0		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C7 PFUnA	93.0		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C2 PFTeDA	65.0		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C3 PFBS	90.2		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C3 PFHxS	99.3		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C8 PFOS	109		20 - 150				03/11/24 08:47	03/11/24 20:39	1
d3-NMeFOSAA	127		20 - 150				03/11/24 08:47	03/11/24 20:39	1
d5-NEtFOSAA	82.9		20 - 150				03/11/24 08:47	03/11/24 20:39	1
M2-4:2 FTS	134		20 - 150				03/11/24 08:47	03/11/24 20:39	1
M2-6:2 FTS	137		20 - 150				03/11/24 08:47	03/11/24 20:39	1
M2-8:2 FTS	133		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C3 HFPO-DA	108		20 - 150				03/11/24 08:47	03/11/24 20:39	1
d7-N-MeFOSE-M	137		20 - 150				03/11/24 08:47	03/11/24 20:39	1
d9-N-EtFOSE-M	133		20 - 150				03/11/24 08:47	03/11/24 20:39	1
d5-NEtPFOSA	99.8		20 - 150				03/11/24 08:47	03/11/24 20:39	1
d3-NMePFOSA	98.8		20 - 150				03/11/24 08:47	03/11/24 20:39	1
13C2-PFDoDA	72.3		20 - 150				03/11/24 08:47	03/11/24 20:39	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1760		13.5	3.36	ug/Kg	☼	03/11/24 08:47	03/14/24 13:14	50
Perfluorooctanesulfonamide (PFOSA)	13.5	U	13.5	3.36	ug/Kg	☼	03/11/24 08:47	03/14/24 13:14	50
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	119		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C5 PFPeA	101		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C5 PFHxA	89.1		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C4 PFHpA	117		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C8 PFOA	90.4		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C9 PFNA	66.1		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C6 PFDA	98.5		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C7 PFUnA	59.4		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C2 PFTeDA	73.2		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C3 PFBS	78.6		20 - 150				03/11/24 08:47	03/14/24 13:14	50
13C3 PFHxS	123		20 - 150				03/11/24 08:47	03/14/24 13:14	50

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-3_0-2_P

Lab Sample ID: 460-299436-2

Date Collected: 03/05/24 09:55

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 45.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL3 (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	95.6		20 - 150	03/11/24 08:47	03/14/24 13:14	50
13C8 FOSA	100		20 - 150	03/11/24 08:47	03/14/24 13:14	50
d3-NMeFOSAA	65.4		20 - 150	03/11/24 08:47	03/14/24 13:14	50
d5-NEtFOSAA	77.7		20 - 150	03/11/24 08:47	03/14/24 13:14	50
M2-4:2 FTS	107		20 - 150	03/11/24 08:47	03/14/24 13:14	50
M2-6:2 FTS	110		20 - 150	03/11/24 08:47	03/14/24 13:14	50
M2-8:2 FTS	84.9		20 - 150	03/11/24 08:47	03/14/24 13:14	50
13C3 HFPO-DA	99.5		20 - 150	03/11/24 08:47	03/14/24 13:14	50
d7-N-MeFOSE-M	95.3		20 - 150	03/11/24 08:47	03/14/24 13:14	50
d9-N-EtFOSE-M	76.2		20 - 150	03/11/24 08:47	03/14/24 13:14	50
d5-NEtPFOSA	0.000 *		20 - 150	03/11/24 08:47	03/14/24 13:14	50
d3-NMePFOSA	69.7		20 - 150	03/11/24 08:47	03/14/24 13:14	50
13C2-PFDoDA	59.6		20 - 150	03/11/24 08:47	03/14/24 13:14	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	45.3		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	54.7		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-2_0-2_P

Lab Sample ID: 460-299436-3

Date Collected: 03/05/24 10:45

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 85.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorotridecanoic acid (PFTTrDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorohexanesulfonic acid (PFHxS)	0.079	J	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorooctanesulfonic acid (PFOS)	12.3		0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-2_0-2_P

Lab Sample ID: 460-299436-3

Date Collected: 03/05/24 10:45

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 85.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.90	U	1.90	0.48	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.90	U	1.90	0.48	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.95	U	0.95	0.24	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.75	U	4.75	1.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.75	U	4.75	1.19	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 08:47	03/11/24 20:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	104		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C5 PFPeA	121		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C5 PFHxA	106		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C4 PFHpA	120		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C8 PFOA	110		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C9 PFNA	88.2		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C6 PFDA	85.5		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C7 PFUnA	88.1		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C2 PFTeDA	49.2		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C3 PFBS	95.1		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C3 PFHxS	98.0		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C8 PFOS	99.3		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C8 FOSA	100		20 - 150	03/11/24 08:47	03/11/24 20:54	1
d3-NMeFOSAA	79.9		20 - 150	03/11/24 08:47	03/11/24 20:54	1
d5-NEtFOSAA	74.7		20 - 150	03/11/24 08:47	03/11/24 20:54	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-2_0-2_P

Lab Sample ID: 460-299436-3

Date Collected: 03/05/24 10:45

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 85.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	103		20 - 150	03/11/24 08:47	03/11/24 20:54	1
M2-6:2 FTS	111		20 - 150	03/11/24 08:47	03/11/24 20:54	1
M2-8:2 FTS	111		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C3 HFPO-DA	113		20 - 150	03/11/24 08:47	03/11/24 20:54	1
d7-N-MeFOSE-M	93.2		20 - 150	03/11/24 08:47	03/11/24 20:54	1
d9-N-EtFOSE-M	84.2		20 - 150	03/11/24 08:47	03/11/24 20:54	1
d5-NEtPFOSA	65.0		20 - 150	03/11/24 08:47	03/11/24 20:54	1
d3-NMePFOSA	69.7		20 - 150	03/11/24 08:47	03/11/24 20:54	1
13C2-PFDoDA	61.3		20 - 150	03/11/24 08:47	03/11/24 20:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	85.4		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	14.6		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-6_0-2_P

Lab Sample ID: 460-299436-4

Date Collected: 03/05/24 13:05

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.77	U	0.77	0.19	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluoropentanoic acid (PFPeA)	0.39	U	0.39	0.097	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorotridecanoic acid (PFTriDA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorooctanesulfonic acid (PFOS)	0.42		0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.77	U	0.77	0.19	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.77	U	0.77	0.19	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.77	U	0.77	0.19	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048	ug/Kg	✱	03/11/24 08:47	03/11/24 21:09	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-6_0-2_P

Lab Sample ID: 460-299436-4

Date Collected: 03/05/24 13:05

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.94	U	1.94	0.48	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.94	U	1.94	0.48	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.39	U	0.39	0.097	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.39	U	0.39	0.097	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
9-Chlorohexadecafluoro-3-oxanonane e-1-sulfonic acid	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
11-Chloroeicosafluoro-3-oxaundecane e-1-sulfonic acid	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.39	U	0.39	0.097	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.97	U	0.97	0.24	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.84	U	4.84	1.21	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.84	U	4.84	1.21	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.39	U	0.39	0.097	ug/Kg	☼	03/11/24 08:47	03/11/24 21:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	101		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C5 PFPeA	123		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C5 PFHxA	97.6		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C4 PFHpA	123		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C8 PFOA	99.5		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C9 PFNA	77.1		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C6 PFDA	82.9		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C7 PFUnA	88.1		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C2 PFTeDA	61.4		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C3 PFBS	95.5		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C3 PFHxS	97.1		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C8 PFOS	95.9		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C8 FOSA	99.8		20 - 150				03/11/24 08:47	03/11/24 21:09	1
d3-NMeFOSAA	92.5		20 - 150				03/11/24 08:47	03/11/24 21:09	1
d5-NEtFOSAA	87.1		20 - 150				03/11/24 08:47	03/11/24 21:09	1
M2-4:2 FTS	116		20 - 150				03/11/24 08:47	03/11/24 21:09	1
M2-6:2 FTS	120		20 - 150				03/11/24 08:47	03/11/24 21:09	1
M2-8:2 FTS	111		20 - 150				03/11/24 08:47	03/11/24 21:09	1
13C3 HFPO-DA	103		20 - 150				03/11/24 08:47	03/11/24 21:09	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-6_0-2_P

Lab Sample ID: 460-299436-4

Date Collected: 03/05/24 13:05

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	92.1		20 - 150	03/11/24 08:47	03/11/24 21:09	1
d9-N-EtFOSE-M	87.5		20 - 150	03/11/24 08:47	03/11/24 21:09	1
d5-NEtPFOSA	72.1		20 - 150	03/11/24 08:47	03/11/24 21:09	1
d3-NMePFOSA	77.2		20 - 150	03/11/24 08:47	03/11/24 21:09	1
13C2-PFDoDA	63.7		20 - 150	03/11/24 08:47	03/11/24 21:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.9		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	15.1		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: DUP_03052024

Lab Sample ID: 460-299436-5

Date Collected: 03/05/24 13:10

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.78	U	0.78	0.20	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluoropentanoic acid (PFPeA)	0.39	U	0.39	0.098	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorooctanesulfonic acid (PFOS)	0.29		0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluoronanesulfonic acid (PFNS)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.78	U	0.78	0.20	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.78	U	0.78	0.20	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.78	U	0.78	0.20	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.049	ug/Kg	✳	03/11/24 08:47	03/11/24 21:24	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: DUP_03052024

Lab Sample ID: 460-299436-5

Date Collected: 03/05/24 13:10

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.049	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.95	U	1.95	0.49	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.95	U	1.95	0.49	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.78	U	0.78	0.20	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.78	U	0.78	0.20	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.39	U	0.39	0.098	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.39	U	0.39	0.098	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.78	U	0.78	0.20	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.78	U	0.78	0.20	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.39	U	0.39	0.098	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.98	U	0.98	0.24	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.88	U	4.88	1.22	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.88	U	4.88	1.22	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.049	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.39	U	0.39	0.098	ug/Kg	☼	03/11/24 08:47	03/11/24 21:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C5 PFPeA	121		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C5 PFHxA	99.7		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C4 PFHpA	118		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C8 PFOA	101		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C9 PFNA	84.7		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C6 PFDA	85.4		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C7 PFUnA	86.5		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C2 PFTeDA	57.4		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C3 PFBS	93.8		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C3 PFHxS	95.3		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C8 PFOS	94.9		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C8 FOSA	107		20 - 150	03/11/24 08:47	03/11/24 21:24	1
d3-NMeFOSAA	97.5		20 - 150	03/11/24 08:47	03/11/24 21:24	1
d5-NEtFOSAA	89.9		20 - 150	03/11/24 08:47	03/11/24 21:24	1
M2-4:2 FTS	111		20 - 150	03/11/24 08:47	03/11/24 21:24	1
M2-6:2 FTS	118		20 - 150	03/11/24 08:47	03/11/24 21:24	1
M2-8:2 FTS	116		20 - 150	03/11/24 08:47	03/11/24 21:24	1
13C3 HFPO-DA	105		20 - 150	03/11/24 08:47	03/11/24 21:24	1
d7-N-MeFOSE-M	98.7		20 - 150	03/11/24 08:47	03/11/24 21:24	1
d9-N-EtFOSE-M	92.5		20 - 150	03/11/24 08:47	03/11/24 21:24	1
d5-NEtPFOSA	71.6		20 - 150	03/11/24 08:47	03/11/24 21:24	1
d3-NMePFOSA	78.2		20 - 150	03/11/24 08:47	03/11/24 21:24	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: DUP_03052024

Lab Sample ID: 460-299436-5

Date Collected: 03/05/24 13:10

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C2-PFDoDA	63.8		20 - 150	03/11/24 08:47	03/11/24 21:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.8		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	15.2		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-5_0-2_P

Lab Sample ID: 460-299436-6

Date Collected: 03/05/24 13:15

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 82.1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorooctanoic acid (PFOA)	0.13	J	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorotridecanoic acid (PFTriDA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorooctanesulfonic acid (PFOS)	0.61		0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluoronanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.99	U	1.99	0.50	ug/Kg	✱	03/11/24 08:47	03/11/24 22:10	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-5_0-2_P

Lab Sample ID: 460-299436-6

Date Collected: 03/05/24 13:15

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 82.1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NETFOSE)	1.99	U	1.99	0.50	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	0.80	U	0.80	0.20	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	0.80	U	0.80	0.20	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.40	U	0.40	0.10	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	1.0	0.25	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.98	U	4.98	1.24	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.98	U	4.98	1.24	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg	☼	03/11/24 08:47	03/11/24 22:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C5 PFPeA	122		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C5 PFHxA	102		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C4 PFHpA	125		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C8 PFOA	104		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C9 PFNA	80.7		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C6 PFDA	77.3		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C7 PFUnA	80.1		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C2 PFTeDA	50.9		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C3 PFBS	91.1		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C3 PFHxS	91.5		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C8 PFOS	90.8		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C8 FOSA	100		20 - 150	03/11/24 08:47	03/11/24 22:10	1
d3-NMeFOSAA	91.9		20 - 150	03/11/24 08:47	03/11/24 22:10	1
d5-NEtFOSAA	79.6		20 - 150	03/11/24 08:47	03/11/24 22:10	1
M2-4:2 FTS	109		20 - 150	03/11/24 08:47	03/11/24 22:10	1
M2-6:2 FTS	112		20 - 150	03/11/24 08:47	03/11/24 22:10	1
M2-8:2 FTS	100		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C3 HFPO-DA	111		20 - 150	03/11/24 08:47	03/11/24 22:10	1
d7-N-MeFOSE-M	93.7		20 - 150	03/11/24 08:47	03/11/24 22:10	1
d9-N-EtFOSE-M	86.7		20 - 150	03/11/24 08:47	03/11/24 22:10	1
d5-NEtPFOSA	70.5		20 - 150	03/11/24 08:47	03/11/24 22:10	1
d3-NMePFOSA	74.6		20 - 150	03/11/24 08:47	03/11/24 22:10	1
13C2-PFDoDA	58.3		20 - 150	03/11/24 08:47	03/11/24 22:10	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-5_0-2_P

Lab Sample ID: 460-299436-6

Date Collected: 03/05/24 13:15

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 82.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.1		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	17.9		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-4_0-2_P

Lab Sample ID: 460-299436-7

Date Collected: 03/05/24 13:20

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.096	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorotridecanoic acid (PFTTrDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.91	U	1.91	0.48	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.91	U	1.91	0.48	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-4_0-2_P

Lab Sample ID: 460-299436-7

Date Collected: 03/05/24 13:20

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.096	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	0.38	U	0.38	0.096	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	0.38	U	0.38	0.096	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.96	U	0.96	0.24	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.79	U	4.79	1.20	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.79	U	4.79	1.20	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.096	ug/Kg	☼	03/11/24 08:47	03/11/24 22:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97.5		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C5 PFPeA	116		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C5 PFHxA	99.2		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C4 PFHpA	116		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C8 PFOA	96.1		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C9 PFNA	82.0		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C6 PFDA	81.0		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C7 PFUnA	84.5		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C2 PFTeDA	64.5		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C3 PFBS	90.8		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C3 PFHxS	89.3		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C8 PFOS	105		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C8 FOSA	94.7		20 - 150	03/11/24 08:47	03/11/24 22:55	1
d3-NMeFOSAA	90.9		20 - 150	03/11/24 08:47	03/11/24 22:55	1
d5-NEtFOSAA	85.9		20 - 150	03/11/24 08:47	03/11/24 22:55	1
M2-4:2 FTS	97.1		20 - 150	03/11/24 08:47	03/11/24 22:55	1
M2-6:2 FTS	108		20 - 150	03/11/24 08:47	03/11/24 22:55	1
M2-8:2 FTS	96.0		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C3 HFPO-DA	107		20 - 150	03/11/24 08:47	03/11/24 22:55	1
d7-N-MeFOSE-M	100		20 - 150	03/11/24 08:47	03/11/24 22:55	1
d9-N-EtFOSE-M	89.8		20 - 150	03/11/24 08:47	03/11/24 22:55	1
d5-NEtPFOSA	73.0		20 - 150	03/11/24 08:47	03/11/24 22:55	1
d3-NMePFOSA	74.9		20 - 150	03/11/24 08:47	03/11/24 22:55	1
13C2-PFDoDA	62.4		20 - 150	03/11/24 08:47	03/11/24 22:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.8		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	15.2		0.1	0.1	%			03/12/24 21:01	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: FB_03052024

Lab Sample ID: 460-299436-8

Date Collected: 03/05/24 13:30

Matrix: Water

Date Received: 03/05/24 19:00

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.63	U	7.63	2.03	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluoropentanoic acid (PFPeA)	3.81	U	3.81	0.95	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorohexanoic acid (PFHxA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluoroheptanoic acid (PFHpA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorooctanoic acid (PFOA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorononanoic acid (PFNA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorodecanoic acid (PFDA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluoroundecanoic acid (PFUnA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorododecanoic acid (PFDoA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorotridecanoic acid (PFTriDA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorotetradecanoic acid (PFTeDA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorobutanesulfonic acid (PFBS)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluoropentanesulfonic acid (PFPeS)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorohexanesulfonic acid (PFHxS)	1.91	U	1.91	0.49	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluoroheptanesulfonic acid (PFHpS)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorooctanesulfonic acid (PFOS)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorononanesulfonic acid (PFNS)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorododecanesulfonic acid (PFDoS)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.63	U	7.63	1.91	ng/L		03/11/24 09:51	03/11/24 16:53	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.63	U	7.63	1.91	ng/L		03/11/24 09:51	03/11/24 16:53	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.63	U	7.63	1.91	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorooctanesulfonamide (PFOSA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.91	U	1.91	0.59	ng/L		03/11/24 09:51	03/11/24 16:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.91	U	1.91	0.50	ng/L		03/11/24 09:51	03/11/24 16:53	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	19.1	U	19.1	4.77	ng/L		03/11/24 09:51	03/11/24 16:53	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	19.1	U	19.1	4.77	ng/L		03/11/24 09:51	03/11/24 16:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.63	U	7.63	1.91	ng/L		03/11/24 09:51	03/11/24 16:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.63	U	7.63	1.91	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.81	U	3.81	0.95	ng/L		03/11/24 09:51	03/11/24 16:53	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.81	U	3.81	1.16	ng/L		03/11/24 09:51	03/11/24 16:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	7.63	U	7.63	1.91	ng/L		03/11/24 09:51	03/11/24 16:53	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	7.63	U	7.63	1.91	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.81	U	3.81	0.95	ng/L		03/11/24 09:51	03/11/24 16:53	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: FB_03052024

Lab Sample ID: 460-299436-8

Date Collected: 03/05/24 13:30

Matrix: Water

Date Received: 03/05/24 19:00

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	9.53	U	9.53	2.38	ng/L		03/11/24 09:51	03/11/24 16:53	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	47.7	U	47.7	11.9	ng/L		03/11/24 09:51	03/11/24 16:53	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	47.7	U	47.7	14.2	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluorodecanesulfonic acid (PFDS)	1.91	U	1.91	0.48	ng/L		03/11/24 09:51	03/11/24 16:53	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.81	U	3.81	0.95	ng/L		03/11/24 09:51	03/11/24 16:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	92.3		10 - 130	03/11/24 09:51	03/11/24 16:53	1
13C5 PFPeA	104		35 - 150	03/11/24 09:51	03/11/24 16:53	1
13C5 PFHxA	96.8		55 - 150	03/11/24 09:51	03/11/24 16:53	1
13C4 PFHpA	111		55 - 150	03/11/24 09:51	03/11/24 16:53	1
13C8 PFOA	87.1		60 - 140	03/11/24 09:51	03/11/24 16:53	1
13C9 PFNA	84.1		55 - 140	03/11/24 09:51	03/11/24 16:53	1
13C6 PFDA	89.6		50 - 140	03/11/24 09:51	03/11/24 16:53	1
13C7 PFUnA	91.0		30 - 140	03/11/24 09:51	03/11/24 16:53	1
13C2 PFTeDA	64.4		10 - 130	03/11/24 09:51	03/11/24 16:53	1
13C3 PFBS	90.2		55 - 150	03/11/24 09:51	03/11/24 16:53	1
13C3 PFHxS	87.2		55 - 150	03/11/24 09:51	03/11/24 16:53	1
13C8 PFOS	86.1		45 - 140	03/11/24 09:51	03/11/24 16:53	1
13C8 FOSA	76.9		30 - 130	03/11/24 09:51	03/11/24 16:53	1
d3-NMeFOSAA	73.5		45 - 200	03/11/24 09:51	03/11/24 16:53	1
d5-NEtFOSAA	71.2		10 - 200	03/11/24 09:51	03/11/24 16:53	1
M2-4:2 FTS	94.7		60 - 200	03/11/24 09:51	03/11/24 16:53	1
M2-6:2 FTS	92.6		60 - 200	03/11/24 09:51	03/11/24 16:53	1
M2-8:2 FTS	94.1		50 - 200	03/11/24 09:51	03/11/24 16:53	1
13C3 HFPO-DA	103		25 - 160	03/11/24 09:51	03/11/24 16:53	1
d7-N-MeFOSE-M	79.4		10 - 150	03/11/24 09:51	03/11/24 16:53	1
d9-N-EtFOSE-M	78.7		10 - 150	03/11/24 09:51	03/11/24 16:53	1
d5-NEtPFOSA	58.6		10 - 130	03/11/24 09:51	03/11/24 16:53	1
d3-NMePFOSA	61.2		15 - 130	03/11/24 09:51	03/11/24 16:53	1
13C2-PFDoDA	69.5		10 - 150	03/11/24 09:51	03/11/24 16:53	1

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
460-299436-1	RSB-1_0-2_P	103	116	96.3	114	104	84.0	86.2	85.6
460-299436-2	RSB-3_0-2_P	102	135	99.6	132	103	88.9	82.0	93.0
460-299436-2 - DL3	RSB-3_0-2_P	119	101	89.1	117	90.4	66.1	98.5	59.4
460-299436-3	RSB-2_0-2_P	104	121	106	120	110	88.2	85.5	88.1
460-299436-4	RSB-6_0-2_P	101	123	97.6	123	99.5	77.1	82.9	88.1
460-299436-4 DU	RSB-6_0-2_P	101	120	98.8	112	103	86.7	85.5	86.7
460-299436-5	DUP_03052024	101	121	99.7	118	101	84.7	85.4	86.5
460-299436-6	RSB-5_0-2_P	102	122	102	125	104	80.7	77.3	80.1
460-299436-6 MS	RSB-5_0-2_P	102	121	101	124	102	83.5	77.7	78.5
460-299436-6 MSD	RSB-5_0-2_P	102	123	102	117	109	86.2	81.9	80.0
460-299436-7	RSB-4_0-2_P	97.5	116	99.2	116	96.1	82.0	81.0	84.5
LCS 240-605574/3-A	Lab Control Sample	104	117	104	121	103	87.9	88.8	94.0
LLCS 240-605574/2-A	Lab Control Sample	100	115	97.9	113	101	82.1	86.0	88.7
MB 240-605574/1-A	Method Blank	103	112	98.3	111	105	85.2	89.4	93.2

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
460-299436-1	RSB-1_0-2_P	56.2	90.1	94.1	92.1	100	92.2	80.9	109
460-299436-2	RSB-3_0-2_P	65.0	90.2	99.3	109		127	82.9	134
460-299436-2 - DL3	RSB-3_0-2_P	73.2	78.6	123	95.6	100	65.4	77.7	107
460-299436-3	RSB-2_0-2_P	49.2	95.1	98.0	99.3	100	79.9	74.7	103
460-299436-4	RSB-6_0-2_P	61.4	95.5	97.1	95.9	99.8	92.5	87.1	116
460-299436-4 DU	RSB-6_0-2_P	55.9	96.4	95.5	91.4	97.3	86.2	85.8	121
460-299436-5	DUP_03052024	57.4	93.8	95.3	94.9	107	97.5	89.9	111
460-299436-6	RSB-5_0-2_P	50.9	91.1	91.5	90.8	100	91.9	79.6	109
460-299436-6 MS	RSB-5_0-2_P	51.2	96.9	93.7	94.0	98.4	93.1	82.8	112
460-299436-6 MSD	RSB-5_0-2_P	47.7	99.4	95.6	91.3	101	90.8	83.5	110
460-299436-7	RSB-4_0-2_P	64.5	90.8	89.3	105	94.7	90.9	85.9	97.1
LCS 240-605574/3-A	Lab Control Sample	72.8	99.6	103	104	107	106	90.8	113
LLCS 240-605574/2-A	Lab Control Sample	64.4	93.5	98.7	105	106	103	89.4	107
MB 240-605574/1-A	Method Blank	73.2	99.1	102	105	101	103	88.2	117

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDODA (20-150)
460-299436-1	RSB-1_0-2_P	115	104	105	94.2	86.1	67.6	78.2	62.3
460-299436-2	RSB-3_0-2_P	137	133	108	137	133	99.8	98.8	72.3
460-299436-2 - DL3	RSB-3_0-2_P	110	84.9	99.5	95.3	76.2	0.000 *	69.7	59.6
460-299436-3	RSB-2_0-2_P	111	111	113	93.2	84.2	65.0	69.7	61.3
460-299436-4	RSB-6_0-2_P	120	111	103	92.1	87.5	72.1	77.2	63.7
460-299436-4 DU	RSB-6_0-2_P	117	106	105	84.3	85.0	67.3	78.1	59.2
460-299436-5	DUP_03052024	118	116	105	98.7	92.5	71.6	78.2	63.8
460-299436-6	RSB-5_0-2_P	112	100	111	93.7	86.7	70.5	74.6	58.3
460-299436-6 MS	RSB-5_0-2_P	114	100	107	94.8	87.7	68.3	74.6	58.4
460-299436-6 MSD	RSB-5_0-2_P	116	105	108	98.2	89.6	67.3	74.4	57.7
460-299436-7	RSB-4_0-2_P	108	96.0	107	100	89.8	73.0	74.9	62.4
LCS 240-605574/3-A	Lab Control Sample	124	110	115	105	98.3	73.1	81.4	67.0
LLCS 240-605574/2-A	Lab Control Sample	110	103	105	103	96.2	71.9	75.4	66.4
MB 240-605574/1-A	Method Blank	111	116	106	98.4	91.6	70.7	79.7	70.2

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Surrogate Legend

PFBA = 13C4 PFBA
 PFPeA = 13C5 PFPeA
 13C5PHA = 13C5 PFHxA
 C4PFHA = 13C4 PFHpA
 C8PFOA = 13C8 PFOA
 C9PFNA = 13C9 PFNA
 C6PFDA = 13C6 PFDA
 13C7PUA = 13C7 PFUnA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 C3PFHS = 13C3 PFHxS
 C8PFOS = 13C8 PFOS
 PFOSA = 13C8 FOSA
 d3NMFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 M242FTS = M2-4:2 FTS
 M262FTS = M2-6:2 FTS
 M282FTS = M2-8:2 FTS
 HFPODA = 13C3 HFPO-DA
 NMFm = d7-N-MeFOSE-M
 NEFM = d9-N-EtFOSE-M
 d5NPFSA = d5-NEtPFOSA
 d3NMFSA = d3-NMePFOSA
 PFDODA = 13C2-PFDODA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (10-130)	PFPeA (35-150)	13C5PHA (55-150)	C4PFHA (55-150)	C8PFOA (60-140)	C9PFNA (55-140)	C6PFDA (50-140)	13C7PUA (30-140)
460-299436-8	FB_03052024	92.3	104	96.8	111	87.1	84.1	89.6	91.0
500-247168-C-1-A DU	Duplicate	92.8	113	96.3	107	87.1	88.6	85.4	90.3
MB 240-605614/1-A	Method Blank	92.1	104	101	109	93.3	86.2	90.0	98.2

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (55-150)	C3PFHS (55-150)	C8PFOS (45-140)	PFOSA (30-130)	d3NMFOS (45-200)	d5NEFOS (10-200)	M242FTS (60-200)
460-299436-8	FB_03052024	64.4	90.2	87.2	86.1	76.9	73.5	71.2	94.7
500-247168-C-1-A DU	Duplicate	69.1	93.1	89.4	86.5	84.2	71.9	64.2	106
MB 240-605614/1-A	Method Blank	69.9	86.7	89.5	89.5	85.3	79.7	74.3	89.9

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (60-200)	M282FTS (50-200)	HFPODA (25-160)	NMFm (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSA (15-130)	PFDODA (10-150)
460-299436-8	FB_03052024	92.6	94.1	103	79.4	78.7	58.6	61.2	69.5
500-247168-C-1-A DU	Duplicate	96.0	86.9	101	85.7	81.9	64.0	69.6	66.6
MB 240-605614/1-A	Method Blank	96.6	93.0	103	82.0	79.8	59.5	62.6	72.4

Surrogate Legend

PFBA = 13C4 PFBA
 PFPeA = 13C5 PFPeA
 13C5PHA = 13C5 PFHxA
 C4PFHA = 13C4 PFHpA
 C8PFOA = 13C8 PFOA
 C9PFNA = 13C9 PFNA
 C6PFDA = 13C6 PFDA

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

- 13C7PUA = 13C7 PFUnA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- HFPODA = 13C3 HFPO-DA
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- d5NPFSA = d5-NEtPFOSA
- d3NMFSA = d3-NMePFOSA
- PFDoDA = 13C2-PFDoDA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (10-130)	PFPeA (40-150)	13C5PHA (40-150)	C4PFHA (40-150)	C8PFOA (30-140)	C9PFNA (30-140)	C6PFDA (20-140)	13C7PUA (20-140)
LCS 240-605614/3-A	Lab Control Sample	90.4	102	96.3	102	82.0	86.4	84.3	92.6
LLCS 240-605614/2-A	Lab Control Sample	91.3	105	101	103	86.9	89.3	96.0	93.6

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (25-150)	C3PFHS (25-150)	C8PFOS (20-140)	PFOSA (10-130)	d3NMFOS (10-200)	d5NEFOS (10-200)	M242FTS (25-200)
LCS 240-605614/3-A	Lab Control Sample	66.0	89.5	89.9	92.0	81.7	77.2	71.1	91.3
LLCS 240-605614/2-A	Lab Control Sample	71.5	93.9	91.9	91.4	84.8	78.6	76.5	101

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-200)	M282FTS (25-200)	HFPODA (25-160)	NMFM (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDoDA (10-150)
LCS 240-605614/3-A	Lab Control Sample	99.1	91.1	102	81.4	78.1	58.0	61.3	65.2
LLCS 240-605614/2-A	Lab Control Sample	97.3	98.4	105	89.3	86.9	60.3	59.0	70.4

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
PFDoDA = 13C2-PFDoDA

DRAFT

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-605574/1-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605574

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorotridecanoic acid (PFTriDA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	U	2.00	0.50	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	U	2.00	0.50	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.80	U	0.80	0.20	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.80	U	0.80	0.20	ug/Kg		03/11/24 08:25	03/11/24 19:39	1

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-605574/1-A
Matrix: Solid
Analysis Batch: 605690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605574

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	U	1.00	0.25	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	U	5.00	1.25	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	U	5.00	1.25	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 08:25	03/11/24 19:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 08:25	03/11/24 19:39	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	103		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C5 PFPeA	112		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C5 PFHxA	98.3		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C4 PFHpA	111		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C8 PFOA	105		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C9 PFNA	85.2		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C6 PFDA	89.4		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C7 PFUnA	93.2		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C2 PFTeDA	73.2		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C3 PFBS	99.1		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C3 PFHxS	102		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C8 PFOS	105		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C8 FOSA	101		20 - 150	03/11/24 08:25	03/11/24 19:39	1
d3-NMeFOSAA	103		20 - 150	03/11/24 08:25	03/11/24 19:39	1
d5-NEtFOSAA	88.2		20 - 150	03/11/24 08:25	03/11/24 19:39	1
M2-4:2 FTS	117		20 - 150	03/11/24 08:25	03/11/24 19:39	1
M2-6:2 FTS	111		20 - 150	03/11/24 08:25	03/11/24 19:39	1
M2-8:2 FTS	116		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C3 HFPO-DA	106		20 - 150	03/11/24 08:25	03/11/24 19:39	1
d7-N-MeFOSE-M	98.4		20 - 150	03/11/24 08:25	03/11/24 19:39	1
d9-N-EtFOSE-M	91.6		20 - 150	03/11/24 08:25	03/11/24 19:39	1
d5-NEtPFOSA	70.7		20 - 150	03/11/24 08:25	03/11/24 19:39	1
d3-NMePFOSA	79.7		20 - 150	03/11/24 08:25	03/11/24 19:39	1
13C2-PFDODA	70.2		20 - 150	03/11/24 08:25	03/11/24 19:39	1

Lab Sample ID: LCS 240-605574/3-A
Matrix: Solid
Analysis Batch: 605690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	5.00	4.905		ug/Kg		98	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.549		ug/Kg		102	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.491		ug/Kg		100	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.580		ug/Kg		103	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.758		ug/Kg		110	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.673		ug/Kg		107	40 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-605574/3-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.50	2.421		ug/Kg		97	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	3.352		ug/Kg		134	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	3.078		ug/Kg		123	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.816		ug/Kg		113	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.158		ug/Kg		98	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.463		ug/Kg		105	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.252		ug/Kg		99	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.379		ug/Kg		100	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	2.340		ug/Kg		101	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.424		ug/Kg		101	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.093		ug/Kg		87	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	9.201		ug/Kg		99	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	9.032		ug/Kg		95	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	9.483		ug/Kg		99	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.474		ug/Kg		99	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.552		ug/Kg		102	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.710		ug/Kg		108	40 - 150
N-methylperfluorooctanesulfonamide doacetic acid (NMeFOSAA)	2.50	2.507		ug/Kg		100	40 - 150
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	2.50	2.687		ug/Kg		107	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	24.56		ug/Kg		98	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	24.85		ug/Kg		99	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	9.921		ug/Kg		99	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	10.18		ug/Kg		108	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.00	5.101		ug/Kg		102	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.00	5.135		ug/Kg		103	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9.32	8.972		ug/Kg		96	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	9.42	8.929		ug/Kg		95	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	4.45	4.950		ug/Kg		111	40 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-605574/3-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12.5	11.58		ug/Kg		93	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5	70.45		ug/Kg		113	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5	66.48		ug/Kg		106	40 - 150
Perfluorodecanesulfonic acid (PFDS)	2.41	2.320		ug/Kg		96	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.00	4.974		ug/Kg		99	40 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	104		20 - 150
13C5 PFPeA	117		20 - 150
13C5 PFHxA	104		20 - 150
13C4 PFHpA	121		20 - 150
13C8 PFOA	103		20 - 150
13C9 PFNA	87.9		20 - 150
13C6 PFDA	88.8		20 - 150
13C7 PFUnA	94.0		20 - 150
13C2 PFTeDA	72.8		20 - 150
13C3 PFBS	99.6		20 - 150
13C3 PFHxS	103		20 - 150
13C8 PFOS	104		20 - 150
13C8 FOSA	107		20 - 150
d3-NMeFOSAA	106		20 - 150
d5-NEtFOSAA	90.8		20 - 150
M2-4:2 FTS	113		20 - 150
M2-6:2 FTS	124		20 - 150
M2-8:2 FTS	110		20 - 150
13C3 HFPO-DA	115		20 - 150
d7-N-MeFOSE-M	105		20 - 150
d9-N-EtFOSE-M	98.3		20 - 150
d5-NEtPFOSA	73.1		20 - 150
d3-NMePFOSA	81.4		20 - 150
13C2-PFDoDA	67.0		20 - 150

Lab Sample ID: LLCS 240-605574/2-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	0.805		ug/Kg		101	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.381	J	ug/Kg		95	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.201		ug/Kg		101	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.195	J	ug/Kg		98	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.196	J	ug/Kg		98	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.236		ug/Kg		118	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.214		ug/Kg		107	40 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-605574/2-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	0.200	0.196	J	ug/Kg		98	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.264		ug/Kg		132	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.240		ug/Kg		120	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.242		ug/Kg		121	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.199	J	ug/Kg		112	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.200		ug/Kg		107	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.181	J	ug/Kg		100	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.192	J	ug/Kg		101	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.189	J	ug/Kg		102	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.201		ug/Kg		105	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.170	J	ug/Kg		88	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.627	J	ug/Kg		84	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.734	J	ug/Kg		97	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.773	J	ug/Kg		101	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.210		ug/Kg		105	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.218		ug/Kg		109	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.213		ug/Kg		107	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.210		ug/Kg		105	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.259		ug/Kg		130	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.001		ug/Kg		100	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	1.994	J	ug/Kg		100	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.816		ug/Kg		102	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.788	J	ug/Kg		105	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.400	0.380	J	ug/Kg		95	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.400	0.413		ug/Kg		103	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.746	0.747	J	ug/Kg		100	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.754	0.744	J	ug/Kg		99	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.356	0.394	J	ug/Kg		111	40 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-605574/2-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	0.982	J	ug/Kg		98	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	5.672		ug/Kg		113	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	5.167		ug/Kg		103	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.193	0.176	J	ug/Kg		91	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.400	0.390	J	ug/Kg		98	40 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	100		20 - 150
13C5 PFPeA	115		20 - 150
13C5 PFHxA	97.9		20 - 150
13C4 PFHpA	113		20 - 150
13C8 PFOA	101		20 - 150
13C9 PFNA	82.1		20 - 150
13C6 PFDA	86.0		20 - 150
13C7 PFUnA	88.7		20 - 150
13C2 PFTeDA	64.4		20 - 150
13C3 PFBS	93.5		20 - 150
13C3 PFHxS	98.7		20 - 150
13C8 PFOS	105		20 - 150
13C8 FOSA	106		20 - 150
d3-NMeFOSAA	103		20 - 150
d5-NEtFOSAA	89.4		20 - 150
M2-4:2 FTS	107		20 - 150
M2-6:2 FTS	110		20 - 150
M2-8:2 FTS	103		20 - 150
13C3 HFPO-DA	105		20 - 150
d7-N-MeFOSE-M	103		20 - 150
d9-N-EtFOSE-M	96.2		20 - 150
d5-NEtPFOSA	71.9		20 - 150
d3-NMePFOSA	75.4		20 - 150
13C2-PFDODA	66.4		20 - 150

Lab Sample ID: 460-299436-6 MS

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: RSB-5_0-2_P

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.80	U	9.96	9.833		ug/Kg	☼	99	40 - 150
Perfluoropentanoic acid (PFPeA)	0.40	U	4.98	4.561		ug/Kg	☼	92	40 - 150
Perfluorohexanoic acid (PFHxA)	0.20	U	2.49	2.484		ug/Kg	☼	100	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.20	U	2.49	2.326		ug/Kg	☼	93	40 - 150
Perfluorooctanoic acid (PFOA)	0.13	J	2.49	2.628		ug/Kg	☼	100	40 - 150
Perfluorononanoic acid (PFNA)	0.20	U	2.49	2.669		ug/Kg	☼	107	40 - 150
Perfluorodecanoic acid (PFDA)	0.20	U	2.49	2.561		ug/Kg	☼	103	40 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-299436-6 MS

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: RSB-5_0-2_P

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Perfluoroundecanoic acid (PFUnA)	0.20	U	2.49	2.399		ug/Kg	☼	96	40 - 150
Perfluorododecanoic acid (PFDoA)	0.20	U	2.49	2.991		ug/Kg	☼	120	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.20	U	2.49	2.844		ug/Kg	☼	114	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	2.49	2.791		ug/Kg	☼	112	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.20	2.036		ug/Kg	☼	93	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	2.33	2.495		ug/Kg	☼	107	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	2.27	2.118		ug/Kg	☼	94	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	2.37	2.275		ug/Kg	☼	96	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.61		2.31	3.095		ug/Kg	☼	107	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.20	U	2.39	2.112		ug/Kg	☼	88	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	2.41	1.608		ug/Kg	☼	67	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	9.30	7.893		ug/Kg	☼	85	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	9.44	8.972		ug/Kg	☼	95	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	9.54	9.390		ug/Kg	☼	98	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.20	U	2.49	2.332		ug/Kg	☼	94	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	2.49	2.405		ug/Kg	☼	97	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	2.49	2.531		ug/Kg	☼	102	40 - 150
N-methylperfluorooctanesulfonamide doacetic acid (NMeFOSAA)	0.20	U	2.49	2.222		ug/Kg	☼	89	40 - 150
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	0.20	U	2.49	2.567		ug/Kg	☼	103	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.99	U	24.9	22.87		ug/Kg	☼	92	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.99	U	24.9	23.48		ug/Kg	☼	94	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	9.96	9.644		ug/Kg	☼	97	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	9.38	10.31		ug/Kg	☼	110	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	4.98	4.774		ug/Kg	☼	96	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	4.98	4.969		ug/Kg	☼	100	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.80	U	9.28	8.434		ug/Kg	☼	91	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.80	U	9.38	7.951		ug/Kg	☼	85	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.40	U	4.43	4.735		ug/Kg	☼	107	40 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-299436-6 MS

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: RSB-5_0-2_P

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	12.4	11.04		ug/Kg	☼	89	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.98	U	62.2	68.74		ug/Kg	☼	110	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.98	U	62.2	62.78		ug/Kg	☼	101	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.20	U	2.40	2.019		ug/Kg	☼	84	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	4.98	4.587		ug/Kg	☼	92	40 - 150

Isotope Dilution	MS	MS	Limits
	%Recovery	Qualifier	
13C4 PFBA	102		20 - 150
13C5 PFPeA	121		20 - 150
13C5 PFHxA	101		20 - 150
13C4 PFHpA	124		20 - 150
13C8 PFOA	102		20 - 150
13C9 PFNA	83.5		20 - 150
13C6 PFDA	77.7		20 - 150
13C7 PFUnA	78.5		20 - 150
13C2 PFTeDA	51.2		20 - 150
13C3 PFBS	96.9		20 - 150
13C3 PFHxS	93.7		20 - 150
13C8 PFOS	94.0		20 - 150
13C8 FOSA	98.4		20 - 150
d3-NMeFOSAA	93.1		20 - 150
d5-NEtFOSAA	82.8		20 - 150
M2-4:2 FTS	112		20 - 150
M2-6:2 FTS	114		20 - 150
M2-8:2 FTS	100		20 - 150
13C3 HFPO-DA	107		20 - 150
d7-N-MeFOSE-M	94.8		20 - 150
d9-N-EtFOSE-M	87.7		20 - 150
d5-NEtPFOSA	68.3		20 - 150
d3-NMePFOSA	74.6		20 - 150
13C2-PFDODA	58.4		20 - 150

Lab Sample ID: 460-299436-6 MSD

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: RSB-5_0-2_P

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Added	Result						
Perfluorobutanoic acid (PFBA)	0.80	U	10.0	10.16		ug/Kg	☼	101	40 - 150	3	30
Perfluoropentanoic acid (PFPeA)	0.40	U	5.01	4.662		ug/Kg	☼	93	40 - 150	2	30
Perfluorohexanoic acid (PFHxA)	0.20	U	2.51	2.585		ug/Kg	☼	103	40 - 150	4	30
Perfluoroheptanoic acid (PFHpA)	0.20	U	2.51	2.496		ug/Kg	☼	100	40 - 150	7	30
Perfluorooctanoic acid (PFOA)	0.13	J	2.51	2.596		ug/Kg	☼	98	40 - 150	1	30
Perfluorononanoic acid (PFNA)	0.20	U	2.51	2.762		ug/Kg	☼	110	40 - 150	3	30
Perfluorodecanoic acid (PFDA)	0.20	U	2.51	2.516		ug/Kg	☼	100	40 - 150	2	30

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-299436-6 MSD

Client Sample ID: RSB-5_0-2_P

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 605690

Prep Batch: 605574

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Perfluoroundecanoic acid (PFUnA)	0.20	U	2.51	2.442		ug/Kg	☼	97	40 - 150	2	30
Perfluorododecanoic acid (PFDoA)	0.20	U	2.51	2.955		ug/Kg	☼	118	40 - 150	1	30
Perfluorotridecanoic acid (PFTrDA)	0.20	U	2.51	2.965		ug/Kg	☼	118	40 - 150	4	30
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	2.51	2.899		ug/Kg	☼	116	40 - 150	4	30
Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.21	2.232		ug/Kg	☼	101	40 - 150	9	30
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	2.35	2.601		ug/Kg	☼	111	40 - 150	4	30
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	2.28	2.254		ug/Kg	☼	99	40 - 150	6	30
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	2.39	2.506		ug/Kg	☼	105	40 - 150	10	30
Perfluorooctanesulfonic acid (PFOS)	0.61		2.33	6.932 *		ug/Kg	☼	272	40 - 150	77	30
Perfluorononanesulfonic acid (PFNS)	0.20	U	2.41	2.152		ug/Kg	☼	89	40 - 150	2	30
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	2.43	1.460		ug/Kg	☼	60	40 - 150	10	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	9.36	8.298		ug/Kg	☼	89	40 - 150	5	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	9.50	9.055		ug/Kg	☼	95	40 - 150	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	9.60	9.912		ug/Kg	☼	103	40 - 150	5	30
Perfluorooctanesulfonamide (PFOSA)	0.20	U	2.51	2.468		ug/Kg	☼	98	40 - 150	6	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	2.51	2.544		ug/Kg	☼	102	40 - 150	6	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	2.51	2.590		ug/Kg	☼	103	40 - 150	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	2.51	2.562		ug/Kg	☼	102	40 - 150	14	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	2.51	2.562		ug/Kg	☼	102	40 - 150	0	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.99	U	25.1	24.01		ug/Kg	☼	96	40 - 150	5	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.99	U	25.1	24.65		ug/Kg	☼	98	40 - 150	5	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	10.0	10.36		ug/Kg	☼	103	40 - 150	7	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	9.44	10.49		ug/Kg	☼	111	40 - 150	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	5.01	4.859		ug/Kg	☼	97	40 - 150	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	5.01	5.054		ug/Kg	☼	101	40 - 150	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.80	U	9.34	8.193		ug/Kg	☼	88	40 - 150	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.80	U	9.44	7.441		ug/Kg	☼	79	40 - 150	7	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.40	U	4.46	5.041		ug/Kg	☼	113	40 - 150	6	30

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-299436-6 MSD

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: RSB-5_0-2_P

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0	U	12.5	11.35		ug/Kg	⊛	91	40 - 150	3	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.98	U	62.6	71.06		ug/Kg	⊛	113	40 - 150	3	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.98	U	62.6	65.09		ug/Kg	⊛	104	40 - 150	4	30
Perfluorodecanesulfonic acid (PFDS)	0.20	U	2.42	1.979		ug/Kg	⊛	82	40 - 150	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	5.01	4.748		ug/Kg	⊛	95	40 - 150	3	30

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
13C4 PFBA	102		20 - 150
13C5 PFPeA	123		20 - 150
13C5 PFHxA	102		20 - 150
13C4 PFHpA	117		20 - 150
13C8 PFOA	109		20 - 150
13C9 PFNA	86.2		20 - 150
13C6 PFDA	81.9		20 - 150
13C7 PFUnA	80.0		20 - 150
13C2 PFTeDA	47.7		20 - 150
13C3 PFBS	99.4		20 - 150
13C3 PFHxS	95.6		20 - 150
13C8 PFOS	91.3		20 - 150
13C8 FOSA	101		20 - 150
d3-NMeFOSAA	90.8		20 - 150
d5-NEtFOSAA	83.5		20 - 150
M2-4:2 FTS	110		20 - 150
M2-6:2 FTS	116		20 - 150
M2-8:2 FTS	105		20 - 150
13C3 HFPO-DA	108		20 - 150
d7-N-MeFOSE-M	98.2		20 - 150
d9-N-EtFOSE-M	89.6		20 - 150
d5-NEtPFOSA	67.3		20 - 150
d3-NMePFOSA	74.4		20 - 150
13C2-PFDoDA	57.7		20 - 150

Lab Sample ID: 460-299436-4 DU

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: RSB-6_0-2_P

Prep Type: Total/NA

Prep Batch: 605574

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Perfluorobutanoic acid (PFBA)	0.77	U	0.75	U	ug/Kg	⊛	NC	30
Perfluoropentanoic acid (PFPeA)	0.39	U	0.38	U	ug/Kg	⊛	NC	30
Perfluorohexanoic acid (PFHxA)	0.19	U	0.145	J	ug/Kg	⊛	NC	30
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.139	J	ug/Kg	⊛	NC	30
Perfluorooctanoic acid (PFOA)	0.19	U	0.319		ug/Kg	⊛	NC	30
Perfluorononanoic acid (PFNA)	0.19	U	0.162	J	ug/Kg	⊛	NC	30
Perfluorodecanoic acid (PFDA)	0.19	U	0.0610	J	ug/Kg	⊛	NC	30

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-299436-4 DU

Client Sample ID: RSB-6_0-2_P

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 605690

Prep Batch: 605574

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.0737	J	ug/Kg	✳	NC	30
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.0548	J	ug/Kg	✳	NC	30
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorooctanesulfonic acid (PFOS)	0.42	U	0.994	*	ug/Kg	✳	82	30
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.77	U	0.75	U	ug/Kg	✳	NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.77	U	0.75	U	ug/Kg	✳	NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.77	U	0.75	U	ug/Kg	✳	NC	30
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
N-methylperfluorooctanesulfonamide doacetic acid (NMeFOSAA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.94	U	1.88	U	ug/Kg	✳	NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.94	U	1.88	U	ug/Kg	✳	NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.77	U	0.75	U	ug/Kg	✳	NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.77	U	0.75	U	ug/Kg	✳	NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.39	U	0.38	U	ug/Kg	✳	NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.39	U	0.38	U	ug/Kg	✳	NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.77	U	0.75	U	ug/Kg	✳	NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.77	U	0.75	U	ug/Kg	✳	NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.39	U	0.38	U	ug/Kg	✳	NC	30

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-299436-4 DU

Client Sample ID: RSB-6_0-2_P

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 605690

Prep Batch: 605574

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.97	U	0.94	U	ug/Kg	☼	NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.84	U	4.69	U	ug/Kg	☼	NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.84	U	4.69	U	ug/Kg	☼	NC	30
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.0595	J	ug/Kg	☼	NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.39	U	0.38	U	ug/Kg	☼	NC	30

Isotope Dilution	DU	DU	Limits
	%Recovery	Qualifier	
13C4 PFBA	101		20 - 150
13C5 PFPeA	120		20 - 150
13C5 PFHxA	98.8		20 - 150
13C4 PFHpA	112		20 - 150
13C8 PFOA	103		20 - 150
13C9 PFNA	86.7		20 - 150
13C6 PFDA	85.5		20 - 150
13C7 PFUnA	86.7		20 - 150
13C2 PFTeDA	55.9		20 - 150
13C3 PFBS	96.4		20 - 150
13C3 PFHxS	95.5		20 - 150
13C8 PFOS	91.4		20 - 150
13C8 FOSA	97.3		20 - 150
d3-NMeFOSAA	86.2		20 - 150
d5-NEtFOSAA	85.8		20 - 150
M2-4:2 FTS	121		20 - 150
M2-6:2 FTS	117		20 - 150
M2-8:2 FTS	106		20 - 150
13C3 HFPO-DA	105		20 - 150
d7-N-MeFOSE-M	84.3		20 - 150
d9-N-EtFOSE-M	85.0		20 - 150
d5-NEtPFOSA	67.3		20 - 150
d3-NMePFOSA	78.1		20 - 150
13C2-PFDoDA	59.2		20 - 150

Lab Sample ID: MB 240-605614/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 605690

Prep Batch: 605614

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	8.00	U	8.00	2.13	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluoropentanoic acid (PFPeA)	4.00	U	4.00	1.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-605614/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 605690

Prep Batch: 605614

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorotridecanoic acid (PFTrDA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorotetradecanoic acid (PFTeDA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluoropentanesulfonic acid (PFPeS)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.52	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorononanesulfonic acid (PFNS)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorododecanesulfonic acid (PFDoS)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	8.00	U	8.00	2.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	8.00	U	8.00	2.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	8.00	U	8.00	2.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorooctanesulfonamide (PFOSA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.62	ng/L		03/11/24 09:51	03/11/24 16:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.52	ng/L		03/11/24 09:51	03/11/24 16:08	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	U	20.0	5.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	U	20.0	5.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	U	8.00	2.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.00	U	8.00	2.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	U	4.00	1.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	U	4.00	1.22	ng/L		03/11/24 09:51	03/11/24 16:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	8.00	U	8.00	2.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	8.00	U	8.00	2.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.00	U	4.00	1.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10.0	U	10.0	2.50	ng/L		03/11/24 09:51	03/11/24 16:08	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50.0	U	50.0	12.5	ng/L		03/11/24 09:51	03/11/24 16:08	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50.0	U	50.0	14.9	ng/L		03/11/24 09:51	03/11/24 16:08	1
Perfluorododecanesulfonic acid (PFDS)	2.00	U	2.00	0.50	ng/L		03/11/24 09:51	03/11/24 16:08	1

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-605614/1-A

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605614

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	U	4.00	1.00	ng/L		03/11/24 09:51	03/11/24 16:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	92.1		10 - 130				03/11/24 09:51	03/11/24 16:08	1
13C5 PFPeA	104		35 - 150				03/11/24 09:51	03/11/24 16:08	1
13C5 PFHxA	101		55 - 150				03/11/24 09:51	03/11/24 16:08	1
13C4 PFHpA	109		55 - 150				03/11/24 09:51	03/11/24 16:08	1
13C8 PFOA	93.3		60 - 140				03/11/24 09:51	03/11/24 16:08	1
13C9 PFNA	86.2		55 - 140				03/11/24 09:51	03/11/24 16:08	1
13C6 PFDA	90.0		50 - 140				03/11/24 09:51	03/11/24 16:08	1
13C7 PFUnA	98.2		30 - 140				03/11/24 09:51	03/11/24 16:08	1
13C2 PFTeDA	69.9		10 - 130				03/11/24 09:51	03/11/24 16:08	1
13C3 PFBS	86.7		55 - 150				03/11/24 09:51	03/11/24 16:08	1
13C3 PFHxS	89.5		55 - 150				03/11/24 09:51	03/11/24 16:08	1
13C8 PFOS	89.5		45 - 140				03/11/24 09:51	03/11/24 16:08	1
13C8 FOSA	85.3		30 - 130				03/11/24 09:51	03/11/24 16:08	1
d3-NMeFOSAA	79.7		45 - 200				03/11/24 09:51	03/11/24 16:08	1
d5-NEtFOSAA	74.3		10 - 200				03/11/24 09:51	03/11/24 16:08	1
M2-4:2 FTS	89.9		60 - 200				03/11/24 09:51	03/11/24 16:08	1
M2-6:2 FTS	96.6		60 - 200				03/11/24 09:51	03/11/24 16:08	1
M2-8:2 FTS	93.0		50 - 200				03/11/24 09:51	03/11/24 16:08	1
13C3 HFPO-DA	103		25 - 160				03/11/24 09:51	03/11/24 16:08	1
d7-N-MeFOSE-M	82.0		10 - 150				03/11/24 09:51	03/11/24 16:08	1
d9-N-EtFOSE-M	79.8		10 - 150				03/11/24 09:51	03/11/24 16:08	1
d5-NEtPFOSA	59.5		10 - 130				03/11/24 09:51	03/11/24 16:08	1
d3-NMePFOSA	62.6		15 - 130				03/11/24 09:51	03/11/24 16:08	1
13C2-PFDoDA	72.4		10 - 150				03/11/24 09:51	03/11/24 16:08	1

Lab Sample ID: LCS 240-605614/3-A

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	100	99.30		ng/L		99	58 - 148
Perfluoropentanoic acid (PFPeA)	50.0	49.12		ng/L		98	54 - 152
Perfluorohexanoic acid (PFHxA)	25.0	24.94		ng/L		100	55 - 152
Perfluoroheptanoic acid (PFHpA)	25.0	23.75		ng/L		95	54 - 154
Perfluorooctanoic acid (PFOA)	25.0	26.36		ng/L		105	52 - 161
Perfluorononanoic acid (PFNA)	25.0	26.58		ng/L		106	59 - 149
Perfluorodecanoic acid (PFDA)	25.0	27.38		ng/L		110	52 - 147
Perfluoroundecanoic acid (PFUnA)	25.0	22.67		ng/L		91	48 - 159
Perfluorododecanoic acid (PFDoA)	25.0	31.27		ng/L		125	64 - 142
Perfluorotridecanoic acid (PFTriDA)	25.0	29.73		ng/L		119	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	25.0	31.12		ng/L		124	47 - 161

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-605614/3-A

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid (PFBS)	22.1	21.91		ng/L		99	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	23.5	23.93		ng/L		102	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	22.8	22.13		ng/L		97	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	23.8	23.40		ng/L		98	55 - 152
Perfluorooctanesulfonic acid (PFOS)	23.2	22.04		ng/L		95	58 - 149
Perfluorononanesulfonic acid (PFNS)	24.0	22.09		ng/L		92	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	24.2	20.79		ng/L		86	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	93.4	95.63		ng/L		102	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	94.8	90.34		ng/L		95	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	95.8	92.81		ng/L		97	63 - 152
Perfluorooctanesulfonamide (PFOSA)	25.0	24.87		ng/L		99	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	25.0	25.86		ng/L		103	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	25.0	27.35		ng/L		109	65 - 139
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	25.0	24.82		ng/L		99	58 - 144
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	25.0	24.68		ng/L		99	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	250	248.0		ng/L		99	71 - 136
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	250	246.7		ng/L		99	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	92.86		ng/L		93	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.2	93.76		ng/L		100	68 - 146
Perfluoro-4-methoxybutanoic acid (PFMBA)	50.0	49.00		ng/L		98	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.0	48.37		ng/L		97	48 - 161
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.2	90.76		ng/L		97	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.2	83.41		ng/L		89	46 - 156
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	44.5	46.65		ng/L		105	56 - 151
3-Perfluoropropylpropanoic acid (3:3 FTCA)	125	118.2		ng/L		95	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	625	640.4		ng/L		102	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	625	587.4		ng/L		94	50 - 138
Perfluorodecanesulfonic acid (PFDS)	24.1	21.42		ng/L		89	51 - 147

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-605614/3-A

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-3-methoxypropanoic acid (PFMPA)	50.0	48.20		ng/L		96	51 - 145
Isotope Dilution							
	%Recovery	Qualifier	Limits				
13C4 PFBA	90.4		10 - 130				
13C5 PFPeA	102		40 - 150				
13C5 PFHxA	96.3		40 - 150				
13C4 PFHpA	102		40 - 150				
13C8 PFOA	82.0		30 - 140				
13C9 PFNA	86.4		30 - 140				
13C6 PFDA	84.3		20 - 140				
13C7 PFUnA	92.6		20 - 140				
13C2 PFTeDA	66.0		10 - 130				
13C3 PFBS	89.5		25 - 150				
13C3 PFHxS	89.9		25 - 150				
13C8 PFOS	92.0		20 - 140				
13C8 FOSA	81.7		10 - 130				
d3-NMeFOSAA	77.2		10 - 200				
d5-NEtFOSAA	71.1		10 - 200				
M2-4:2 FTS	91.3		25 - 200				
M2-6:2 FTS	99.1		25 - 200				
M2-8:2 FTS	91.1		25 - 200				
13C3 HFPO-DA	102		25 - 160				
d7-N-MeFOSE-M	81.4		10 - 150				
d9-N-EtFOSE-M	78.1		10 - 150				
d5-NEtPFOSA	58.0		10 - 130				
d3-NMePFOSA	61.3		10 - 130				
13C2-PFDoDA	65.2		10 - 150				

Lab Sample ID: LLCS 240-605614/2-A

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605614

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	8.242		ng/L		103	44 - 157
Perfluoropentanoic acid (PFPeA)	4.00	3.981	J	ng/L		100	57 - 148
Perfluorohexanoic acid (PFHxA)	2.00	2.036		ng/L		102	62 - 149
Perfluoroheptanoic acid (PFHpA)	2.00	2.182		ng/L		109	56 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.157		ng/L		108	57 - 161
Perfluorononanoic acid (PFNA)	2.00	2.036		ng/L		102	53 - 157
Perfluorodecanoic acid (PFDA)	2.00	1.998	J	ng/L		100	43 - 158
Perfluoroundecanoic acid (PFUnA)	2.00	1.955	J	ng/L		98	50 - 155
Perfluorododecanoic acid (PFDoA)	2.00	2.480		ng/L		124	60 - 141
Perfluorotridecanoic acid (PFTriDA)	2.00	2.533		ng/L		127	52 - 140
Perfluorotetradecanoic acid (PFTeDA)	2.00	2.465		ng/L		123	52 - 156

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-605614/2-A

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605614

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Perfluorobutanesulfonic acid (PFBS)	1.77	1.854	J	ng/L		105	63 - 145
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.901	J	ng/L		101	58 - 144
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.893	J	ng/L		104	44 - 158
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.867	J	ng/L		98	51 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.796	J	ng/L		97	43 - 162
Perfluorononanesulfonic acid (PFNS)	1.92	1.773	J	ng/L		92	46 - 151
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.520	J	ng/L		78	30 - 138
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.47	6.707	J	ng/L		90	52 - 158
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.58	8.314		ng/L		110	48 - 158
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.66	7.190	J	ng/L		94	46 - 165
Perfluorooctanesulfonamide (PFOSA)	2.00	1.969	J	ng/L		98	47 - 163
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	2.428		ng/L		121	54 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	2.373		ng/L		119	49 - 156
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	2.00	2.191		ng/L		110	32 - 160
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	2.00	2.416		ng/L		121	51 - 154
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	19.18	J	ng/L		96	56 - 151
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	20.41		ng/L		102	60 - 147
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	7.767	J	ng/L		97	58 - 154
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.54	7.493	J	ng/L		99	61 - 148
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.745	J	ng/L		94	49 - 154
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	3.677	J	ng/L		92	47 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	7.46	7.235	J	ng/L		97	44 - 167
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	7.54	6.905	J	ng/L		92	36 - 158
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	3.56	3.565	J	ng/L		100	56 - 144
3-Perfluoropropylpropanoic acid (3:3 FTCA)	10.0	10.37		ng/L		104	32 - 161
3-Perfluoropentylpropanoic acid (5:3 FTCA)	50.0	51.28		ng/L		103	39 - 156
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50.0	44.50	J	ng/L		89	36 - 149
Perfluorodecanesulfonic acid (PFDS)	1.93	1.845	J	ng/L		96	50 - 144

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-605614/2-A

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605614

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.903	J	ng/L		98	48 - 150
LLCS LLCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C4 PFBA	91.3		10 - 130				
13C5 PFPeA	105		40 - 150				
13C5 PFHxA	101		40 - 150				
13C4 PFHpA	103		40 - 150				
13C8 PFOA	86.9		30 - 140				
13C9 PFNA	89.3		30 - 140				
13C6 PFDA	96.0		20 - 140				
13C7 PFUnA	93.6		20 - 140				
13C2 PFTeDA	71.5		10 - 130				
13C3 PFBS	93.9		25 - 150				
13C3 PFHxS	91.9		25 - 150				
13C8 PFOS	91.4		20 - 140				
13C8 FOSA	84.8		10 - 130				
d3-NMeFOSAA	78.6		10 - 200				
d5-NEtFOSAA	76.5		10 - 200				
M2-4:2 FTS	101		25 - 200				
M2-6:2 FTS	97.3		25 - 200				
M2-8:2 FTS	98.4		25 - 200				
13C3 HFPO-DA	105		25 - 160				
d7-N-MeFOSE-M	89.3		10 - 150				
d9-N-EtFOSE-M	86.9		10 - 150				
d5-NEtPFOSA	60.3		10 - 130				
d3-NMePFOSA	59.0		10 - 130				
13C2-PFDoDA	70.4		10 - 150				

Lab Sample ID: 500-247168-C-1-A DU

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 605614

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Perfluorobutanoic acid (PFBA)	7.66	U	7.47	U	ng/L		NC	30
Perfluoropentanoic acid (PFPeA)	3.83	U	1.248	J	ng/L		NC	30
Perfluorohexanoic acid (PFHxA)	2.92		2.959		ng/L		1	30
Perfluoroheptanoic acid (PFHpA)	6.07		6.034		ng/L		0.6	30
Perfluorooctanoic acid (PFOA)	326		317.2		ng/L		3	30
Perfluorononanoic acid (PFNA)	1.91	U	1.87	U	ng/L		NC	30
Perfluorodecanoic acid (PFDA)	1.91	U	1.87	U	ng/L		NC	30
Perfluoroundecanoic acid (PFUnA)	1.91	U	1.87	U	ng/L		NC	30
Perfluorododecanoic acid (PFDoA)	1.91	U	1.87	U	ng/L		NC	30
Perfluorotridecanoic acid (PFTriDA)	1.91	U	1.87	U	ng/L		NC	30
Perfluorotetradecanoic acid (PFTeDA)	1.91	U	1.87	U	ng/L		NC	30

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 500-247168-C-1-A DU

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 605614

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Perfluorobutanesulfonic acid (PFBS)	0.66	J	0.620	J	ng/L		6	30
Perfluoropentanesulfonic acid (PFPeS)	1.91	U	1.87	U	ng/L		NC	30
Perfluorohexanesulfonic acid (PFHxS)	1.91	U	1.87	U	ng/L		NC	30
Perfluoroheptanesulfonic acid (PFHpS)	1.91	U	1.87	U	ng/L		NC	30
Perfluorooctanesulfonic acid (PFOS)	1.91	U	1.87	U	ng/L		NC	30
Perfluorononanesulfonic acid (PFNS)	1.91	U	1.87	U	ng/L		NC	30
Perfluorododecanesulfonic acid (PFDoS)	1.91	U	1.87	U	ng/L		NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.66	U	7.47	U	ng/L		NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.66	U	7.47	U	ng/L		NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.66	U	7.47	U	ng/L		NC	30
Perfluorooctanesulfonamide (PFOSA)	1.91	U	1.87	U	ng/L		NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.91	U	1.87	U	ng/L		NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.91	U	1.87	U	ng/L		NC	30
N-methylperfluorooctanesulfonamide doacetic acid (NMeFOSAA)	1.91	U	1.87	U	ng/L		NC	30
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	1.91	U	1.87	U	ng/L		NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	19.1	U	18.7	U	ng/L		NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	19.1	U	18.7	U	ng/L		NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.66	U	7.47	U	ng/L		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.66	U	7.47	U	ng/L		NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.83	U	3.74	U	ng/L		NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.83	U	3.74	U	ng/L		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	7.66	U	7.47	U	ng/L		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	7.66	U	7.47	U	ng/L		NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	3.83	U	3.74	U	ng/L		NC	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	9.57	U	9.34	U	ng/L		NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	47.9	U	46.7	U	ng/L		NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	47.9	U	46.7	U	ng/L		NC	30
Perfluorodecanesulfonic acid (PFDS)	1.91	U	1.87	U	ng/L		NC	30

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 500-247168-C-1-A DU

Matrix: Water

Analysis Batch: 605690

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 605614

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.83	U	3.74	U	ng/L		NC	30
<i>DU DU</i>								
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>					
13C4 PFBA	92.8		10 - 130					
13C5 PFPeA	113		35 - 150					
13C5 PFHxA	96.3		55 - 150					
13C4 PFHpA	107		55 - 150					
13C8 PFOA	87.1		60 - 140					
13C9 PFNA	88.6		55 - 140					
13C6 PFDA	85.4		50 - 140					
13C7 PFUnA	90.3		30 - 140					
13C2 PFTeDA	69.1		10 - 130					
13C3 PFBS	93.1		55 - 150					
13C3 PFHxS	89.4		55 - 150					
13C8 PFOS	86.5		45 - 140					
13C8 FOSA	84.2		30 - 130					
d3-NMeFOSAA	71.9		45 - 200					
d5-NEtFOSAA	64.2		10 - 200					
M2-4:2 FTS	106		60 - 200					
M2-6:2 FTS	96.0		60 - 200					
M2-8:2 FTS	86.9		50 - 200					
13C3 HFPO-DA	101		25 - 160					
d7-N-MeFOSE-M	85.7		10 - 150					
d9-N-EtFOSE-M	81.9		10 - 150					
d5-NEtPFOSA	64.0		10 - 130					
d3-NMePFOSA	69.6		15 - 130					
13C2-PFDoDA	66.6		10 - 150					

Method: Moisture - Percent Moisture

Lab Sample ID: 460-299436-1 DU

Matrix: Solid

Analysis Batch: 605876

Client Sample ID: RSB-1_0-2_P

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Percent Solids	86.5		87.7		%		1	20
Percent Moisture	13.5		12.3		%		9	20

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

LCMS

Prep Batch: 605574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299436-1	RSB-1_0-2_P	Total/NA	Solid	1633 Shake	
460-299436-2	RSB-3_0-2_P	Total/NA	Solid	1633 Shake	
460-299436-2 - DL3	RSB-3_0-2_P	Total/NA	Solid	1633 Shake	
460-299436-3	RSB-2_0-2_P	Total/NA	Solid	1633 Shake	
460-299436-4	RSB-6_0-2_P	Total/NA	Solid	1633 Shake	
460-299436-5	DUP_03052024	Total/NA	Solid	1633 Shake	
460-299436-6	RSB-5_0-2_P	Total/NA	Solid	1633 Shake	
460-299436-7	RSB-4_0-2_P	Total/NA	Solid	1633 Shake	
MB 240-605574/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-605574/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-605574/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
460-299436-6 MS	RSB-5_0-2_P	Total/NA	Solid	1633 Shake	
460-299436-6 MSD	RSB-5_0-2_P	Total/NA	Solid	1633 Shake	
460-299436-4 DU	RSB-6_0-2_P	Total/NA	Solid	1633 Shake	

Prep Batch: 605614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299436-8	FB_03052024	Total/NA	Water	1633	
MB 240-605614/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-605614/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-605614/2-A	Lab Control Sample	Total/NA	Water	1633	
500-247168-C-1-A DU	Duplicate	Total/NA	Water	1633	

Analysis Batch: 605690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299436-1	RSB-1_0-2_P	Total/NA	Solid	1633	605574
460-299436-2	RSB-3_0-2_P	Total/NA	Solid	1633	605574
460-299436-3	RSB-2_0-2_P	Total/NA	Solid	1633	605574
460-299436-4	RSB-6_0-2_P	Total/NA	Solid	1633	605574
460-299436-5	DUP_03052024	Total/NA	Solid	1633	605574
460-299436-6	RSB-5_0-2_P	Total/NA	Solid	1633	605574
460-299436-7	RSB-4_0-2_P	Total/NA	Solid	1633	605574
460-299436-8	FB_03052024	Total/NA	Water	1633	605614
MB 240-605574/1-A	Method Blank	Total/NA	Solid	1633	605574
MB 240-605614/1-A	Method Blank	Total/NA	Water	1633	605614
LCS 240-605574/3-A	Lab Control Sample	Total/NA	Solid	1633	605574
LCS 240-605614/3-A	Lab Control Sample	Total/NA	Water	1633	605614
LLCS 240-605574/2-A	Lab Control Sample	Total/NA	Solid	1633	605574
LLCS 240-605614/2-A	Lab Control Sample	Total/NA	Water	1633	605614
460-299436-6 MS	RSB-5_0-2_P	Total/NA	Solid	1633	605574
460-299436-6 MSD	RSB-5_0-2_P	Total/NA	Solid	1633	605574
460-299436-4 DU	RSB-6_0-2_P	Total/NA	Solid	1633	605574
500-247168-C-1-A DU	Duplicate	Total/NA	Water	1633	605614

Analysis Batch: 606110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299436-2 - DL3	RSB-3_0-2_P	Total/NA	Solid	1633	605574

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

General Chemistry

Analysis Batch: 605876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299436-1	RSB-1_0-2_P	Total/NA	Solid	Moisture	
460-299436-2	RSB-3_0-2_P	Total/NA	Solid	Moisture	
460-299436-3	RSB-2_0-2_P	Total/NA	Solid	Moisture	
460-299436-4	RSB-6_0-2_P	Total/NA	Solid	Moisture	
460-299436-5	DUP_03052024	Total/NA	Solid	Moisture	
460-299436-6	RSB-5_0-2_P	Total/NA	Solid	Moisture	
460-299436-7	RSB-4_0-2_P	Total/NA	Solid	Moisture	
460-299436-1 DU	RSB-1_0-2_P	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-1_0-2_P

Lab Sample ID: 460-299436-1

Date Collected: 03/05/24 09:40

Matrix: Solid

Date Received: 03/05/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: RSB-1_0-2_P

Lab Sample ID: 460-299436-1

Date Collected: 03/05/24 09:40

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605574	WJW	EET CLE	03/11/24 08:47
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/11/24 20:24

Client Sample ID: RSB-3_0-2_P

Lab Sample ID: 460-299436-2

Date Collected: 03/05/24 09:55

Matrix: Solid

Date Received: 03/05/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: RSB-3_0-2_P

Lab Sample ID: 460-299436-2

Date Collected: 03/05/24 09:55

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 45.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605574	WJW	EET CLE	03/11/24 08:47
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/11/24 20:39
Total/NA	Prep	1633 Shake	DL3		605574	WJW	EET CLE	03/11/24 08:47
Total/NA	Analysis	1633	DL3	50	606110	MRL	EET CLE	03/14/24 13:14

Client Sample ID: RSB-2_0-2_P

Lab Sample ID: 460-299436-3

Date Collected: 03/05/24 10:45

Matrix: Solid

Date Received: 03/05/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: RSB-2_0-2_P

Lab Sample ID: 460-299436-3

Date Collected: 03/05/24 10:45

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605574	WJW	EET CLE	03/11/24 08:47
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/11/24 20:54

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-6_0-2_P

Lab Sample ID: 460-299436-4

Date Collected: 03/05/24 13:05

Matrix: Solid

Date Received: 03/05/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: RSB-6_0-2_P

Lab Sample ID: 460-299436-4

Date Collected: 03/05/24 13:05

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605574	WJW	EET CLE	03/11/24 08:47
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/11/24 21:09

Client Sample ID: DUP_03052024

Lab Sample ID: 460-299436-5

Date Collected: 03/05/24 13:10

Matrix: Solid

Date Received: 03/05/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: DUP_03052024

Lab Sample ID: 460-299436-5

Date Collected: 03/05/24 13:10

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605574	WJW	EET CLE	03/11/24 08:47
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/11/24 21:24

Client Sample ID: RSB-5_0-2_P

Lab Sample ID: 460-299436-6

Date Collected: 03/05/24 13:15

Matrix: Solid

Date Received: 03/05/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: RSB-5_0-2_P

Lab Sample ID: 460-299436-6

Date Collected: 03/05/24 13:15

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605574	WJW	EET CLE	03/11/24 08:47
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/11/24 22:10

Client Sample ID: RSB-4_0-2_P

Lab Sample ID: 460-299436-7

Date Collected: 03/05/24 13:20

Matrix: Solid

Date Received: 03/05/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Client Sample ID: RSB-4_0-2_P

Lab Sample ID: 460-299436-7

Date Collected: 03/05/24 13:20

Matrix: Solid

Date Received: 03/05/24 19:00

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605574	WJW	EET CLE	03/11/24 08:47
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/11/24 22:55

Client Sample ID: FB_03052024

Lab Sample ID: 460-299436-8

Date Collected: 03/05/24 13:30

Matrix: Water

Date Received: 03/05/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			605614	CLB	EET CLE	03/11/24 09:51
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/11/24 16:53

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
Moisture	Percent Moisture	EPA	EET CLE
1633	Solid-Phase Extraction (SPE)	EPA	EET CLE
1633 Shake	Shake Extraction with SPE	EPA	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street, Brooklyn, NY

Job ID: 460-299436-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-299436-1	RSB-1_0-2_P	Solid	03/05/24 09:40	03/05/24 19:00
460-299436-2	RSB-3_0-2_P	Solid	03/05/24 09:55	03/05/24 19:00
460-299436-3	RSB-2_0-2_P	Solid	03/05/24 10:45	03/05/24 19:00
460-299436-4	RSB-6_0-2_P	Solid	03/05/24 13:05	03/05/24 19:00
460-299436-5	DUP_03052024	Solid	03/05/24 13:10	03/05/24 19:00
460-299436-6	RSB-5_0-2_P	Solid	03/05/24 13:15	03/05/24 19:00
460-299436-7	RSB-4_0-2_P	Solid	03/05/24 13:20	03/05/24 19:00
460-299436-8	FB_03052024	Water	03/05/24 13:30	03/05/24 19:00

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Address: 12 Franklin St

Chain of Custody Record

674000



Environment Testing America

TAL-8210

Regulatory Program DW NPDES RCRA Other

Project Manager: Frank Hunk Site Contact: han hunk Date: 3/5/24 of 3/5/24 COCs

Tel/Email: Chank B. Duvall Lab Contact: han hunk Sampler: For Lab Use Only

Analysis Turnaround Time: standard Working Days: TAT

CALENDAR DAYS WORKING DAYS

TAT: if different from below: standard 2 weeks 1 week 2 days 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
RSB1-0-2-P	3/5/24	0940	C	S	1		X	
RSB3-0-2-P	"	0955	C	S	1		X	
RSB2-0-2-P	"	1045	C	S	1		X	
RSB6-0-2-P	"	1305	C	S	1		X	
DuB-03052024	"	1310	C	S	1		X	
RSB5-0-2-P	"	1315	C	S	1		X	
RSB4-0-2-P	"	1320	C	S	1		X	
FB 03052024	"	1330	W	IB	18		X	Imprecise printer by HSI/MSD

460-299436 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: COB B

Custody Seal No. Yes No

Relinquished by: Franklin St Date/Time: 3/5/24 1200 Company: ETA

Relinquished by: han hunk Date/Time: 3/5/24 1200 Company: ETA

Relinquished by: han hunk Date/Time: 3/5/24 1200 Company: ETA

Therm ID No. _____

Return to Client Disposal by Lab Archive for: _____ Months



Handwritten notes: "COB B" and "han hunk"

Eurofins Edison

777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

2-5/25



eurofins | Environment Testing

Client Information (Sub Contract Lab)		Sampler		Lab PM: Haas, Melissa		Carrier Tracking No(s):		COC No: 460-70535.1					
Client Contact: Shipping/Receiving		Phone:		E-Mail: Melissa.Haas@et.eurofinsus.com		State of Origin: New York		Page: Page 1 of 2					
Company Eurofins Environment Testing North Centr				Accreditations Required (See note): NELAP New York				Job #: 460-299436-1					
Address: 180 S. Van Buren Avenue, City: Barberton State, Zip: OH 44203 Phone: 330-497-9396(Tel) 330-497-0772(Fax) Email:		Due Date Requested: 3/12/2024 TAT Requested (days):		Analysis Requested						Preservation Codes. A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify) Other:			
Project Name: 12 Franklin Street, Brooklyn, NY Site:		Project #: 46043021 SSOW#:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/water, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Moisture	1633/1633_SPE 1633 Standard List of 40	Total Number of Containers	EWS, G7009 Special Instructions/Note:	
				Preservation Code									
RSB1_0-2_P (460-299436-1)		3/5/24	09:40 Eastern		Solid		X	X					
RSB3_0-2_P (460-299436-2)		3/5/24	09:55 Eastern		Solid		X	X					
RSB2_0-2_P (460-299436-3)		3/5/24	10:45 Eastern		Solid		X	X					
RSB6_0-2_P (460-299436-4)		3/5/24	13:05 Eastern		Solid		X	X					
DUP_03052024 (460-299436-5)		3/5/24	13:10 Eastern		Solid		X	X					
RSB5_0-2_P (460-299436-6)		3/5/24	13:15 Eastern		Solid		X	X					
RSB5_0-2_P (460-299436-6MS)		3/5/24	13:15 Eastern	MS	Solid		X						
RSB5_0-2_P (460-299436-6MSD)		3/5/24	13:15 Eastern	MSD	Solid		X						
RSB4_0-2_P (460-299436-7)		3/5/24	13:20 Eastern		Solid		X	X					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.													
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested: I, II, III, IV Other (specify)			Primary Deliverable Rank: 1		Special Instructions/QC Requirements:								
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:						
Relinquished by:			Date/Time: 3/7/24 1900		Company: HETA		Received by: J. MOROSKO		Date/Time: 03/08/24 1010		Company: ZENC		
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:		
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:		
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Page 57 of 69		Cooler Temperature(s) °C and Other Remarks:		3/18/2024					

Eurolins Cleveland Sample Receipt Form / Narrative Log # _____
 Barberion Facility _____

Client ECTAC Site Name _____ Cooler unpacked by J mroasco

Cooler Received on 03/08/24 Opened on 03/10/24

FeedX, 1st Grd Exp DPS FAS Waypoint Client Drop Off Eurolins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurolins Cooler # EC Foam Box _____ Client Cooler Box Other _____
 Packing material used. Bubble Wrap _____ Foam Plastic Bag None Other _____
 COOLANT. Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt See Multiple Cooler Form 3-08
 IR GUN # 13 0M 3rd 10.0 °C Observed Cooler Temp 38 °C Corrected Cooler Temp 43 °C

2 Were tamper/oustody seals on the outside of the cooler(s)? If Yes Quantity 1
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/oustody seals on the bottle(s) or bottle kits (LIHg/MeHg)? Yes No NA

-Were tamper/oustody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA

4 Did oustody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12 Are these work share samples and all listed on the COC? Yes No NA

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HG316719

14 Were VOAs on the COC? Yes No NA H4329089

15 Were air bubbles >6 mm in any VOA vials? Larger than this

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

17 Was a LI, Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by _____

19 SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory
 Time preserved. _____ Preservative(s) added/Lot number(s) _____
 VOA Sample Preservation - Date/Time VOAs Frozen. _____

Tests that are not checked for pH by Receiving
 VOAs
 Oil and Grease
 TOC

- 1
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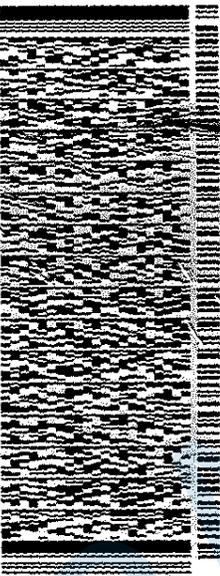
(732) 543-3900
 008 11 ROAD
 NEW JERSEY

SHIP DATE 07MAR24
 RTG WT 39.99 LB
 CARD 0615092ZCRFES903
 BILL SENDER

SHIPPING/RECEIVING
 EUROPEANS ENVIRONMENT TESTING NORTH
 180 S VAN BUREN AVENUE
 BARBERTON OH 44203

(330) 497
 P.O. 153

REF: 8460-179447

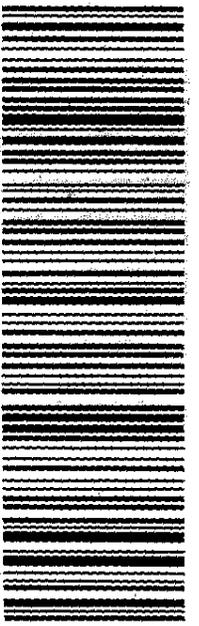


TRK# 6553 1011 3196
 0201

FRI - 08 MAR 10:30A
 PRIORITY OVERNIGHT

NX CAKA

OH-US CLE
44203



Eurofins Edison

777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler		Lab PM: Haas, Melissa		Carrier Tracking No(s):		COC No: 460-70535.2																											
Client Contact: Shipping/Receiving		Phone:		E-Mail: Melissa.Haas@et.eurofinsus.com		State of Origin: New York		Page: Page 2 of 2																											
Company: Eurofins Environment Testing North Centr				Accreditations Required (See note): NELAP New York				Job #: 460-299436-1																											
Address: 180 S. Van Buren Avenue,		Due Date Requested: 3/12/2024		Analysis Requested						Preservation Codes. A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify) Other:																									
City: Barberton		TAT Requested (days):																																	
State, Zip: OH, 44203		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		1633/1633_Shake 1633 Standard List of 40		Moisture		1633/1633_SPE 1633 Standard List of 40		Total Number of containers																					
Phone: 330-497-9396(Tel) 330-497-0772(Fax)		WO #:																																	
Email:		Project #: 46043021		Special Instructions/Note:		Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code																			
Project Name: 12 Franklin Street, Brooklyn, NY		SSOW#:																																	
Site:																																			
FB_03052024 (460-299436-8)		3/5/24		13:30 Eastern		Water																													
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.																																			
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																									
Unconfirmed										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																									
Deliverable Requested: I II III, IV Other (specify)						Primary Deliverable Rank: 1						Special Instructions/QC Requirements.																							
Empty Kit Relinquished by:						Date:						Time:						Method of Shipment:																	
Relinquished by:						Date/Time: 3/7/24 1900						Company: ETEC						Received by: J. Morosico						Date/Time: 03/05/24 1016						Company: ETEC					
Relinquished by:						Date/Time:						Company:						Received by:						Date/Time:						Company:					
Relinquished by:						Date/Time:						Company:						Received by:						Date/Time:						Company:					
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Page 62 of 69				Cooler Temperature(s) °C and Other Remarks:				3/18/2024																							

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(732) 549-3900

SHIP DATE 07MAR24
ACTING 39.95 LB
CAD 0618092/CAFE3803

BILL SENDER

SHIPPING/RECEIVING

EUROTRANS ENVIRONMENT TESTING NORTH
180 S VAN BUREN AVENUE

BARBERTON OH 44203

REF: 8460-179447

(330) 497
PG: YES

FedEx
EXPRE

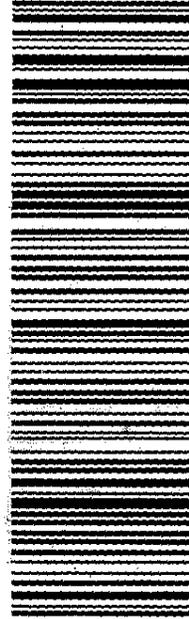


FRI - 08 MAR 10:30A
PRIORITY OVERNIGHT

TRK# 6553 10113196

NX CAKA

44203
OH-US-CLE



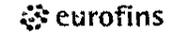
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Eurofins Edison

777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

2-5/25



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM: Haas, Melissa		Carrier Tracking No(s):		COC No: 460-70535.1									
Client Contact: Shipping/Receiving		Phone:	E-Mail: Melissa.Haas@et.eurofinsus.com		State of Origin: New York		Page: Page 1 of 2									
Company: Eurofins Environment Testing North Centr				Accreditations Required (See note): NELAP New York				Job #: 460-299436-1								
Address: 180 S. Van Buren Avenue,		Due Date Requested: 3/12/2024		Analysis Requested						Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)						
City: Barberton		TAT Requested (days):														
State, Zip: OH 44203		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		1633/1633_Shake 1633 Standard List of 40		Moisture		1633/1633_SPE 1633 Standard List of 40		Total Number of containers		
Phone: 330-497-9396(Tel) 330-497-0772(Fax)		WO #:														
Email:		Project #: 46043021		Special Instructions/Note: EWS G009		Other:										
Project Name: 12 Franklin Street, Brooklyn, NY		SSOW#:														
Site:																
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)											
RSB1_0-2_P (460-299436-1)		3/5/24	09:40 Eastern		Solid	X	X								1	
RSB3_0-2_P (460-299436-2)		3/5/24	09:55 Eastern		Solid	X	X								1	
RSB2_0-2_P (460-299436-3)		3/5/24	10:45 Eastern		Solid	X	X								1	
RSB6_0-2_P (460-299436-4)		3/5/24	13:05 Eastern		Solid	X	X								1	
DUP_03052024 (460-299436-5)		3/5/24	13:10 Eastern		Solid	X	X								1	
RSB5_0-2_P (460-299436-6)		3/5/24	13:15 Eastern		Solid	X	X								1	
RSB5_0-2_P (460-299436-6MS)		3/5/24	13:15 Eastern	MS	Solid	X									1	
RSB5_0-2_P (460-299436-6MSD)		3/5/24	13:15 Eastern	MSD	Solid	X									1	
RSB4_0-2_P (460-299436-7)		3/5/24	13:20 Eastern		Solid	X	X								1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.																
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested: I, II III IV Other (specify)					Primary Deliverable Rank: 1					Special Instructions/QC Requirements.						
Empty Kit Relinquished by:			Date:		Time:			Method of Shipment:								
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:						
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:						
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:						
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.			Page 65 of 69			Cooler Temperature(s) °C and Other Remarks:				3/18/2024				

Client ESTMC Site Name _____ Cooler unpacked by: Jmoresco
 Cooler Received on 03/08/24 Opened on 03/08/24

FedEx 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____
 Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____
 Packing material used. Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT. Wet Ice Blue Ice Dry Ice Water None _____

1 Cooler temperature upon receipt _____ °C Observed Cooler Temp 38 °C Corrected Cooler Temp 43 °C
 IR GUN # 13 JMCR 105 70.0 °C SM Form 3-08 7-11

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity as 1
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

3 Shippers' packing slip attached to the cooler(s)? Yes No
 4. Did custody papers accompany the sample(s)? Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7 Did all bottles arrive in good condition (Unbroken)? Yes No
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 9 For each sample, does the COC specify preservatives (Y/N) # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
 10 Were correct bottle(s) used for the test(s) indicated? Yes No
 11 Sufficient quantity received to perform indicated analyses? Yes No
 12 Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory
 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HG916719
 14 Were VOAs on the COC? Yes No NA
 15 Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____
 17 Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19 SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory
 Time preserved _____ Preservative(s) added/Lot number(s) _____
 VOA Sample Preservation Date/Time VOAs Frozen _____

- 1
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- 8
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- 10
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- 12
- 13
- 14
- 15

(732) 549-3900

NEW JERSEY
 DUPONT ROAD
 DUNELLEN NJ 07012

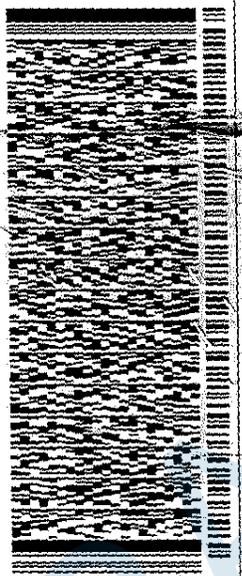
SHIP DATE 07MAR24
 ACT WT 39.95 LB
 CRD 06190927CAF E3803
 BILL SENDER

SHIPPING/RECEIVING
 EUROPEANS ENVIRONMENT TESTING NORTH
 180 S WYAN BYREN AVENUE

BARBERTON OH 44203

(330) 487
 PO 155

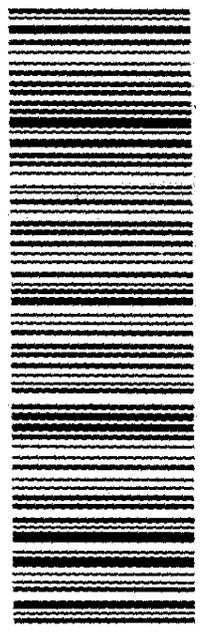
REF: 8460-179447



24102311230

TRK# 6553 1011 3196
 0201
 FRI - 08 MAR 10:30A
 PRIORITY OVERNIGHT

NX CAKA
 OH-US CLE
 44203



Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-299436-1

Login Number: 299436

List Number: 1

Creator: Rivera, Kenneth

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Rachel Henke
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Generated 3/13/2024 6:43:09 AM

JOB DESCRIPTION

12 Franklin Street

JOB NUMBER

460-299464-1

Eurofins Edison

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Compliance Statement

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.

Authorization



Generated
3/13/2024 6:43:09 AM

Authorized for release by
Melissa Haas, Senior Project Manager
Melissa.Haas@et.eurofinsus.com
(203)308-0880



Table of Contents

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DRAFT

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value.
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Roux Environmental Eng & Geology DPC
Project: 12 Franklin Street

Job ID: 460-299464-1

Job ID: 460-299464-1

Eurofins Edison

Job Narrative 460-299464-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/6/2024 7:00 PM. 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 time was 2.6°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

2 containers were received instead of 4 as listed on COC.

Method 8260D - Volatile Organic Compounds by GC/MS

Samples W.UST.A_B_N_6-8 (460-299464-1), W.UST.A_B_C1_6-8 (460-299464-2), W.UST.A_B_C2_6-8 (460-299464-3), W.UST.A_B_S_6-8 (460-299464-4), E.UST.A_B_N_6-8 (460-299464-5), E.UST.A_B_C1_6-8 (460-299464-6), E.UST.A_B_C2_6-8 (460-299464-7), E.UST.A_B_S_6-8 (460-299464-8) and Trip Blank (460-299464-10) were analyzed for Volatile Organic Compounds by GC/MS. The samples were prepared on 3/7/2024 and analyzed on 3/8/2024 and 3/9/2024.

Method 8270E - Semivolatile Organic Compounds (GC/MS)

Samples W.UST.A_B_N_6-8 (460-299464-1), W.UST.A_B_C1_6-8 (460-299464-2), W.UST.A_B_C2_6-8 (460-299464-3), W.UST.A_B_S_6-8 (460-299464-4), E.UST.A_B_N_6-8 (460-299464-5), E.UST.A_B_C1_6-8 (460-299464-6), E.UST.A_B_C2_6-8 (460-299464-7), E.UST.A_B_S_6-8 (460-299464-8) and FB_030624_UST (460-299464-9) were analyzed for Semivolatile Organic Compounds (GC/MS). The samples were prepared on 3/7/2024 and 3/11/2024 and analyzed on 3/8/2024 and 3/12/2024.

Method Moisture - Percent Moisture

Samples W.UST.A_B_N_6-8 (460-299464-1), W.UST.A_B_C1_6-8 (460-299464-2), W.UST.A_B_C2_6-8 (460-299464-3), W.UST.A_B_S_6-8 (460-299464-4), E.UST.A_B_N_6-8 (460-299464-5), E.UST.A_B_C1_6-8 (460-299464-6), E.UST.A_B_C2_6-8 (460-299464-7) and E.UST.A_B_S_6-8 (460-299464-8) were analyzed for Percent Moisture. The samples were analyzed on 3/7/2024.

Eurofins Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_N_6-8

Lab Sample ID: 460-299464-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.013	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Acenaphthylene	0.090	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Anthracene	0.062	J	0.39	0.012	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]anthracene	0.24		0.039	0.030	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]pyrene	0.29		0.039	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[b]fluoranthene	0.47		0.039	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[g,h,i]perylene	0.24	J	0.39	0.012	mg/Kg	1	✳	8270E	Total/NA
Benzo[k]fluoranthene	0.15		0.039	0.0077	mg/Kg	1	✳	8270E	Total/NA
Chrysene	0.29	J	0.39	0.017	mg/Kg	1	✳	8270E	Total/NA
Dibenz(a,h)anthracene	0.064		0.039	0.017	mg/Kg	1	✳	8270E	Total/NA
Fluoranthene	0.40		0.39	0.014	mg/Kg	1	✳	8270E	Total/NA
Fluorene	0.015	J	0.39	0.012	mg/Kg	1	✳	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.28		0.039	0.015	mg/Kg	1	✳	8270E	Total/NA
Naphthalene	0.55		0.39	0.0068	mg/Kg	1	✳	8270E	Total/NA
Phenanthrene	0.28	J	0.39	0.016	mg/Kg	1	✳	8270E	Total/NA
Pyrene	0.36	J	0.39	0.0098	mg/Kg	1	✳	8270E	Total/NA

Client Sample ID: W.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.0061		0.0019	0.00048	mg/Kg	1	✳	8260D	Total/NA
1,3,5-Trimethylbenzene	0.0038		0.0019	0.00061	mg/Kg	1	✳	8260D	Total/NA
4-Isopropyltoluene	0.0014	J	0.0019	0.00058	mg/Kg	1	✳	8260D	Total/NA
n-Butylbenzene	0.00073	J	0.0019	0.00057	mg/Kg	1	✳	8260D	Total/NA
sec-Butylbenzene	0.00076	J	0.0019	0.00056	mg/Kg	1	✳	8260D	Total/NA
Toluene	0.0013	J	0.0019	0.00045	mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	0.0044		0.0039	0.00034	mg/Kg	1	✳	8260D	Total/NA
Acenaphthene	0.040	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Acenaphthylene	0.095	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Anthracene	0.12	J	0.39	0.012	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]anthracene	0.58		0.039	0.029	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]pyrene	0.69		0.039	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[b]fluoranthene	0.78		0.039	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[g,h,i]perylene	0.37	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Benzo[k]fluoranthene	0.28		0.039	0.0076	mg/Kg	1	✳	8270E	Total/NA
Chrysene	0.59		0.39	0.016	mg/Kg	1	✳	8270E	Total/NA
Dibenz(a,h)anthracene	0.095		0.039	0.017	mg/Kg	1	✳	8270E	Total/NA
Fluoranthene	0.82		0.39	0.013	mg/Kg	1	✳	8270E	Total/NA
Fluorene	0.038	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.45		0.039	0.015	mg/Kg	1	✳	8270E	Total/NA
Naphthalene	0.25	J	0.39	0.0067	mg/Kg	1	✳	8270E	Total/NA
Phenanthrene	0.53		0.39	0.016	mg/Kg	1	✳	8270E	Total/NA
Pyrene	0.78		0.39	0.0096	mg/Kg	1	✳	8270E	Total/NA

Client Sample ID: W.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.014		0.0015	0.00037	mg/Kg	1	✳	8260D	Total/NA
1,3,5-Trimethylbenzene	0.0095		0.0015	0.00048	mg/Kg	1	✳	8260D	Total/NA
4-Isopropyltoluene	0.0039		0.0015	0.00045	mg/Kg	1	✳	8260D	Total/NA
Ethylbenzene	0.00096	J	0.0015	0.00030	mg/Kg	1	✳	8260D	Total/NA
Isopropylbenzene	0.0015		0.0015	0.00043	mg/Kg	1	✳	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_C2_6-8 (Continued)

Lab Sample ID: 460-299464-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0013	J	0.0023	0.00062	mg/Kg	1	✳	8260D	Total/NA
n-Butylbenzene	0.0021		0.0015	0.00045	mg/Kg	1	✳	8260D	Total/NA
N-Propylbenzene	0.0015		0.0015	0.00027	mg/Kg	1	✳	8260D	Total/NA
sec-Butylbenzene	0.0023		0.0015	0.00044	mg/Kg	1	✳	8260D	Total/NA
tert-Butylbenzene	0.00063	J	0.0015	0.00042	mg/Kg	1	✳	8260D	Total/NA
Toluene	0.0025		0.0015	0.00036	mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	0.0096		0.0030	0.00026	mg/Kg	1	✳	8260D	Total/NA
Acenaphthene	0.037	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Acenaphthylene	0.017	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Anthracene	0.095	J	0.39	0.012	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]anthracene	0.35		0.039	0.029	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]pyrene	0.42		0.039	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[b]fluoranthene	0.54		0.039	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[g,h,i]perylene	0.24	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Benzo[k]fluoranthene	0.18		0.039	0.0076	mg/Kg	1	✳	8270E	Total/NA
Chrysene	0.37	J	0.39	0.016	mg/Kg	1	✳	8270E	Total/NA
Dibenz(a,h)anthracene	0.062		0.039	0.017	mg/Kg	1	✳	8270E	Total/NA
Fluoranthene	0.65		0.39	0.014	mg/Kg	1	✳	8270E	Total/NA
Fluorene	0.030	J	0.39	0.011	mg/Kg	1	✳	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.28		0.039	0.015	mg/Kg	1	✳	8270E	Total/NA
Naphthalene	0.071	J	0.39	0.0067	mg/Kg	1	✳	8270E	Total/NA
Phenanthrene	0.40		0.39	0.016	mg/Kg	1	✳	8270E	Total/NA
Pyrene	0.60		0.39	0.0097	mg/Kg	1	✳	8270E	Total/NA

Client Sample ID: W.UST.A_B_S_6-8

Lab Sample ID: 460-299464-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.0067		0.0016	0.00039	mg/Kg	1	✳	8260D	Total/NA
1,3,5-Trimethylbenzene	0.0036		0.0016	0.00050	mg/Kg	1	✳	8260D	Total/NA
4-Isopropyltoluene	0.0012	J	0.0016	0.00047	mg/Kg	1	✳	8260D	Total/NA
Ethylbenzene	0.00055	J	0.0016	0.00031	mg/Kg	1	✳	8260D	Total/NA
n-Butylbenzene	0.00067	J	0.0016	0.00047	mg/Kg	1	✳	8260D	Total/NA
N-Propylbenzene	0.00052	J	0.0016	0.00028	mg/Kg	1	✳	8260D	Total/NA
sec-Butylbenzene	0.00060	J	0.0016	0.00046	mg/Kg	1	✳	8260D	Total/NA
Toluene	0.0013	J	0.0016	0.00037	mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	0.0054		0.0032	0.00028	mg/Kg	1	✳	8260D	Total/NA
Acenaphthene	0.15	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Acenaphthylene	0.057	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Anthracene	0.41		0.38	0.012	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]anthracene	1.5		0.038	0.029	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]pyrene	1.6		0.038	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[b]fluoranthene	1.9		0.038	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[g,h,i]perylene	0.82		0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Benzo[k]fluoranthene	0.70		0.038	0.0076	mg/Kg	1	✳	8270E	Total/NA
Chrysene	1.6		0.38	0.016	mg/Kg	1	✳	8270E	Total/NA
Dibenz(a,h)anthracene	0.23		0.038	0.017	mg/Kg	1	✳	8270E	Total/NA
Fluoranthene	3.1		0.38	0.013	mg/Kg	1	✳	8270E	Total/NA
Fluorene	0.11	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.94		0.038	0.015	mg/Kg	1	✳	8270E	Total/NA
Naphthalene	0.12	J	0.38	0.0067	mg/Kg	1	✳	8270E	Total/NA
Phenanthrene	2.4		0.38	0.016	mg/Kg	1	✳	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_S_6-8 (Continued)

Lab Sample ID: 460-299464-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	2.8		0.38	0.0096	mg/Kg	1	✖	8270E	Total/NA

Client Sample ID: E.UST.A_B_N_6-8

Lab Sample ID: 460-299464-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.011		0.0015	0.00036	mg/Kg	1	✖	8260D	Total/NA
1,3,5-Trimethylbenzene	0.0071		0.0015	0.00046	mg/Kg	1	✖	8260D	Total/NA
Ethylbenzene	0.0096		0.0015	0.00029	mg/Kg	1	✖	8260D	Total/NA
Isopropylbenzene	0.0018		0.0015	0.00042	mg/Kg	1	✖	8260D	Total/NA
N-Propylbenzene	0.0019		0.0015	0.00026	mg/Kg	1	✖	8260D	Total/NA
Toluene	0.0079		0.0015	0.00034	mg/Kg	1	✖	8260D	Total/NA
Xylenes, Total	0.093		0.0029	0.00025	mg/Kg	1	✖	8260D	Total/NA
Acenaphthene	0.042	J	0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Acenaphthylene	0.042	J	0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Anthracene	0.27	J	0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Benzo[a]anthracene	1.4		0.037	0.028	mg/Kg	1	✖	8270E	Total/NA
Benzo[a]pyrene	1.7		0.037	0.010	mg/Kg	1	✖	8270E	Total/NA
Benzo[b]fluoranthene	1.9		0.037	0.0097	mg/Kg	1	✖	8270E	Total/NA
Benzo[g,h,i]perylene	0.89		0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Benzo[k]fluoranthene	0.70		0.037	0.0074	mg/Kg	1	✖	8270E	Total/NA
Chrysene	1.4		0.37	0.016	mg/Kg	1	✖	8270E	Total/NA
Dibenz(a,h)anthracene	0.25		0.037	0.016	mg/Kg	1	✖	8270E	Total/NA
Fluoranthene	2.4		0.37	0.013	mg/Kg	1	✖	8270E	Total/NA
Fluorene	0.045	J	0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.1		0.037	0.015	mg/Kg	1	✖	8270E	Total/NA
Naphthalene	0.076	J	0.37	0.0065	mg/Kg	1	✖	8270E	Total/NA
Phenanthrene	1.0		0.37	0.015	mg/Kg	1	✖	8270E	Total/NA
Pyrene	1.9		0.37	0.0093	mg/Kg	1	✖	8270E	Total/NA

Client Sample ID: E.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.00094	J	0.0015	0.00037	mg/Kg	1	✖	8260D	Total/NA
1,3,5-Trimethylbenzene	0.00052	J	0.0015	0.00048	mg/Kg	1	✖	8260D	Total/NA
Ethylbenzene	0.00076	J	0.0015	0.00030	mg/Kg	1	✖	8260D	Total/NA
Toluene	0.0029		0.0015	0.00036	mg/Kg	1	✖	8260D	Total/NA
Xylenes, Total	0.0064		0.0030	0.00026	mg/Kg	1	✖	8260D	Total/NA
Acenaphthene	0.086	J	0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Acenaphthylene	0.020	J	0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Anthracene	0.24	J	0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Benzo[a]anthracene	1.8		0.037	0.028	mg/Kg	1	✖	8270E	Total/NA
Benzo[a]pyrene	2.5		0.037	0.010	mg/Kg	1	✖	8270E	Total/NA
Benzo[b]fluoranthene	2.4		0.037	0.0097	mg/Kg	1	✖	8270E	Total/NA
Benzo[g,h,i]perylene	0.95		0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Benzo[k]fluoranthene	0.95		0.037	0.0074	mg/Kg	1	✖	8270E	Total/NA
Chrysene	1.6		0.37	0.016	mg/Kg	1	✖	8270E	Total/NA
Dibenz(a,h)anthracene	0.37		0.037	0.016	mg/Kg	1	✖	8270E	Total/NA
Fluoranthene	1.2		0.37	0.013	mg/Kg	1	✖	8270E	Total/NA
Fluorene	0.050	J	0.37	0.011	mg/Kg	1	✖	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.2		0.037	0.015	mg/Kg	1	✖	8270E	Total/NA
Naphthalene	0.040	J	0.37	0.0065	mg/Kg	1	✖	8270E	Total/NA
Phenanthrene	0.64		0.37	0.015	mg/Kg	1	✖	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: E.UST.A_B_C1_6-8 (Continued)

Lab Sample ID: 460-299464-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	1.3		0.37	0.0093	mg/Kg	1	✳	8270E	Total/NA

Client Sample ID: E.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.0014		0.0014	0.00035	mg/Kg	1	✳	8260D	Total/NA
1,3,5-Trimethylbenzene	0.00075	J	0.0014	0.00045	mg/Kg	1	✳	8260D	Total/NA
Ethylbenzene	0.0011	J	0.0014	0.00029	mg/Kg	1	✳	8260D	Total/NA
Toluene	0.0035		0.0014	0.00034	mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	0.0094		0.0029	0.00025	mg/Kg	1	✳	8260D	Total/NA
Acenaphthene	0.026	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Acenaphthylene	0.023	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Anthracene	0.080	J	0.38	0.012	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]anthracene	0.50		0.038	0.029	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]pyrene	0.67		0.038	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[b]fluoranthene	0.81		0.038	0.0098	mg/Kg	1	✳	8270E	Total/NA
Benzo[g,h,i]perylene	0.39		0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Benzo[k]fluoranthene	0.28		0.038	0.0074	mg/Kg	1	✳	8270E	Total/NA
Chrysene	0.54		0.38	0.016	mg/Kg	1	✳	8270E	Total/NA
Dibenz(a,h)anthracene	0.11		0.038	0.016	mg/Kg	1	✳	8270E	Total/NA
Fluoranthene	0.77		0.38	0.013	mg/Kg	1	✳	8270E	Total/NA
Fluorene	0.014	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.45		0.038	0.015	mg/Kg	1	✳	8270E	Total/NA
Naphthalene	0.032	J	0.38	0.0065	mg/Kg	1	✳	8270E	Total/NA
Phenanthrene	0.35	J	0.38	0.015	mg/Kg	1	✳	8270E	Total/NA
Pyrene	0.75		0.38	0.0094	mg/Kg	1	✳	8270E	Total/NA

Client Sample ID: E.UST.A_B_S_6-8

Lab Sample ID: 460-299464-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00095	J	0.0015	0.00036	mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	0.0012	J	0.0031	0.00027	mg/Kg	1	✳	8260D	Total/NA
Acenaphthene	0.017	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Acenaphthylene	0.050	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Anthracene	0.067	J	0.38	0.012	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]anthracene	0.39		0.038	0.029	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]pyrene	0.51		0.038	0.010	mg/Kg	1	✳	8270E	Total/NA
Benzo[b]fluoranthene	0.61		0.038	0.0099	mg/Kg	1	✳	8270E	Total/NA
Benzo[g,h,i]perylene	0.37	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Benzo[k]fluoranthene	0.22		0.038	0.0075	mg/Kg	1	✳	8270E	Total/NA
Chrysene	0.38		0.38	0.016	mg/Kg	1	✳	8270E	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.038	0.017	mg/Kg	1	✳	8270E	Total/NA
Fluoranthene	0.55		0.38	0.013	mg/Kg	1	✳	8270E	Total/NA
Fluorene	0.013	J	0.38	0.011	mg/Kg	1	✳	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.43		0.038	0.015	mg/Kg	1	✳	8270E	Total/NA
Naphthalene	0.054	J	0.38	0.0066	mg/Kg	1	✳	8270E	Total/NA
Phenanthrene	0.23	J	0.38	0.016	mg/Kg	1	✳	8270E	Total/NA
Pyrene	0.54		0.38	0.0095	mg/Kg	1	✳	8270E	Total/NA

Client Sample ID: FB_030624_UST

Lab Sample ID: 460-299464-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-299464-10

No Detections.

DRAFT

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This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_N_6-8

Lab Sample ID: 460-299464-1

Date Collected: 03/06/24 08:00

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 83.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.0016	U	0.0016	0.00040	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
1,3,5-Trimethylbenzene	0.0016	U	0.0016	0.00051	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
4-Isopropyltoluene	0.0016	U	0.0016	0.00048	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
Benzene	0.0016	U	0.0016	0.00042	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
Ethylbenzene	0.0016	U	0.0016	0.00032	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
Isopropylbenzene	0.0016	U	0.0016	0.00046	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
Methyl tert-butyl ether	0.0016	U	0.0016	0.00083	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
Naphthalene	0.0024	U	0.0024	0.00066	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
n-Butylbenzene	0.0016	U	0.0016	0.00048	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
N-Propylbenzene	0.0016	U	0.0016	0.00028	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
sec-Butylbenzene	0.0016	U	0.0016	0.00047	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
tert-Butylbenzene	0.0016	U	0.0016	0.00045	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
Toluene	0.0016	U	0.0016	0.00038	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1
Xylenes, Total	0.0032	U	0.0032	0.00028	mg/Kg	✱	03/07/24 18:01	03/08/24 08:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		72 - 138	03/07/24 18:01	03/08/24 08:30	1
4-Bromofluorobenzene	99		63 - 139	03/07/24 18:01	03/08/24 08:30	1
Dibromofluoromethane (Surr)	84		54 - 150	03/07/24 18:01	03/08/24 08:30	1
Toluene-d8 (Surr)	90		71 - 126	03/07/24 18:01	03/08/24 08:30	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.013	J	0.39	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Acenaphthylene	0.090	J	0.39	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Anthracene	0.062	J	0.39	0.012	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Benzo[a]anthracene	0.24		0.039	0.030	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Benzo[a]pyrene	0.29		0.039	0.010	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Benzo[b]fluoranthene	0.47		0.039	0.010	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Benzo[g,h,i]perylene	0.24	J	0.39	0.012	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Benzo[k]fluoranthene	0.15		0.039	0.0077	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Chrysene	0.29	J	0.39	0.017	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Dibenz(a,h)anthracene	0.064		0.039	0.017	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Fluoranthene	0.40		0.39	0.014	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Fluorene	0.015	J	0.39	0.012	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Indeno[1,2,3-cd]pyrene	0.28		0.039	0.015	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Naphthalene	0.55		0.39	0.0068	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Phenanthrene	0.28	J	0.39	0.016	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1
Pyrene	0.36	J	0.39	0.0098	mg/Kg	✱	03/07/24 19:32	03/08/24 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		24 - 137	03/07/24 19:32	03/08/24 14:31	1
2-Fluorobiphenyl	98		48 - 120	03/07/24 19:32	03/08/24 14:31	1
2-Fluorophenol (Surr)	95		31 - 120	03/07/24 19:32	03/08/24 14:31	1
Nitrobenzene-d5 (Surr)	90		38 - 120	03/07/24 19:32	03/08/24 14:31	1
Phenol-d5 (Surr)	99		39 - 120	03/07/24 19:32	03/08/24 14:31	1
Terphenyl-d14 (Surr)	104		25 - 126	03/07/24 19:32	03/08/24 14:31	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_N_6-8

Lab Sample ID: 460-299464-1

Date Collected: 03/06/24 08:00

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 83.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.2		1.0	1.0	%			03/07/24 16:56	1
Percent Solids (EPA Moisture)	83.8		1.0	1.0	%			03/07/24 16:56	1

Client Sample ID: W.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-2

Date Collected: 03/06/24 08:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 85.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.0061		0.0019	0.00048	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
1,3,5-Trimethylbenzene	0.0038		0.0019	0.00061	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
4-Isopropyltoluene	0.0014	J	0.0019	0.00058	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
Benzene	0.0019	U	0.0019	0.00050	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
Ethylbenzene	0.0019	U	0.0019	0.00039	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
Isopropylbenzene	0.0019	U	0.0019	0.00055	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
Methyl tert-butyl ether	0.0019	U	0.0019	0.00099	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
Naphthalene	0.0029	U	0.0029	0.00079	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
n-Butylbenzene	0.00073	J	0.0019	0.00057	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
N-Propylbenzene	0.0019	U	0.0019	0.00034	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
sec-Butylbenzene	0.00076	J	0.0019	0.00056	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
tert-Butylbenzene	0.0019	U	0.0019	0.00053	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
Toluene	0.0013	J	0.0019	0.00045	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1
Xylenes, Total	0.0044		0.0039	0.00034	mg/Kg	☼	03/07/24 18:02	03/08/24 08:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		72 - 138	03/07/24 18:02	03/08/24 08:54	1
4-Bromofluorobenzene	99		63 - 139	03/07/24 18:02	03/08/24 08:54	1
Dibromofluoromethane (Surr)	81		54 - 150	03/07/24 18:02	03/08/24 08:54	1
Toluene-d8 (Surr)	89		71 - 126	03/07/24 18:02	03/08/24 08:54	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.040	J	0.39	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Acenaphthylene	0.095	J	0.39	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Anthracene	0.12	J	0.39	0.012	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Benzo[a]anthracene	0.58		0.039	0.029	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Benzo[a]pyrene	0.69		0.039	0.010	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Benzo[b]fluoranthene	0.78		0.039	0.010	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Benzo[g,h,i]perylene	0.37	J	0.39	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Benzo[k]fluoranthene	0.28		0.039	0.0076	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Chrysene	0.59		0.39	0.016	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Dibenz(a,h)anthracene	0.095		0.039	0.017	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Fluoranthene	0.82		0.39	0.013	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Fluorene	0.038	J	0.39	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Indeno[1,2,3-cd]pyrene	0.45		0.039	0.015	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Naphthalene	0.25	J	0.39	0.0067	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Phenanthrene	0.53		0.39	0.016	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1
Pyrene	0.78		0.39	0.0096	mg/Kg	☼	03/07/24 19:32	03/08/24 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		24 - 137	03/07/24 19:32	03/08/24 14:56	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-2

Date Collected: 03/06/24 08:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 85.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		48 - 120	03/07/24 19:32	03/08/24 14:56	1
2-Fluorophenol (Surr)	90		31 - 120	03/07/24 19:32	03/08/24 14:56	1
Nitrobenzene-d5 (Surr)	88		38 - 120	03/07/24 19:32	03/08/24 14:56	1
Phenol-d5 (Surr)	97		39 - 120	03/07/24 19:32	03/08/24 14:56	1
Terphenyl-d14 (Surr)	103		25 - 126	03/07/24 19:32	03/08/24 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.8		1.0	1.0	%			03/07/24 16:56	1
Percent Solids (EPA Moisture)	85.2		1.0	1.0	%			03/07/24 16:56	1

Client Sample ID: W.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-3

Date Collected: 03/06/24 08:10

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 84.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.014		0.0015	0.00037	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
1,3,5-Trimethylbenzene	0.0095		0.0015	0.00048	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
4-Isopropyltoluene	0.0039		0.0015	0.00045	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
Benzene	0.0015	U	0.0015	0.00039	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
Ethylbenzene	0.00096	J	0.0015	0.00030	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
Isopropylbenzene	0.0015		0.0015	0.00043	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
Methyl tert-butyl ether	0.0015	U	0.0015	0.00078	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
Naphthalene	0.0013	J	0.0023	0.00062	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
n-Butylbenzene	0.0021		0.0015	0.00045	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
N-Propylbenzene	0.0015		0.0015	0.00027	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
sec-Butylbenzene	0.0023		0.0015	0.00044	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
tert-Butylbenzene	0.00063	J	0.0015	0.00042	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
Toluene	0.0025		0.0015	0.00036	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1
Xylenes, Total	0.0096		0.0030	0.00026	mg/Kg	☼	03/07/24 18:03	03/08/24 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		72 - 138	03/07/24 18:03	03/08/24 09:19	1
4-Bromofluorobenzene	103		63 - 139	03/07/24 18:03	03/08/24 09:19	1
Dibromofluoromethane (Surr)	80		54 - 150	03/07/24 18:03	03/08/24 09:19	1
Toluene-d8 (Surr)	93		71 - 126	03/07/24 18:03	03/08/24 09:19	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.037	J	0.39	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Acenaphthylene	0.017	J	0.39	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Anthracene	0.095	J	0.39	0.012	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Benzo[a]anthracene	0.35		0.039	0.029	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Benzo[a]pyrene	0.42		0.039	0.010	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Benzo[b]fluoranthene	0.54		0.039	0.010	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Benzo[g,h,i]perylene	0.24	J	0.39	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Benzo[k]fluoranthene	0.18		0.039	0.0076	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Chrysene	0.37	J	0.39	0.016	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Dibenz(a,h)anthracene	0.062		0.039	0.017	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-3

Date Collected: 03/06/24 08:10

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 84.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	0.65		0.39	0.014	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Fluorene	0.030	J	0.39	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Indeno[1,2,3-cd]pyrene	0.28		0.039	0.015	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Naphthalene	0.071	J	0.39	0.0067	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Phenanthrene	0.40		0.39	0.016	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1
Pyrene	0.60		0.39	0.0097	mg/Kg	☼	03/07/24 19:32	03/08/24 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		24 - 137	03/07/24 19:32	03/08/24 15:20	1
2-Fluorobiphenyl	85		48 - 120	03/07/24 19:32	03/08/24 15:20	1
2-Fluorophenol (Surr)	76		31 - 120	03/07/24 19:32	03/08/24 15:20	1
Nitrobenzene-d5 (Surr)	76		38 - 120	03/07/24 19:32	03/08/24 15:20	1
Phenol-d5 (Surr)	84		39 - 120	03/07/24 19:32	03/08/24 15:20	1
Terphenyl-d14 (Surr)	94		25 - 126	03/07/24 19:32	03/08/24 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.3		1.0	1.0	%			03/07/24 16:56	1
Percent Solids (EPA Moisture)	84.7		1.0	1.0	%			03/07/24 16:56	1

Client Sample ID: W.UST.A_B_S_6-8

Lab Sample ID: 460-299464-4

Date Collected: 03/06/24 08:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 85.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.0067		0.0016	0.00039	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
1,3,5-Trimethylbenzene	0.0036		0.0016	0.00050	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
4-Isopropyltoluene	0.0012	J	0.0016	0.00047	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
Benzene	0.0016	U	0.0016	0.00041	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
Ethylbenzene	0.00055	J	0.0016	0.00031	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
Isopropylbenzene	0.0016	U	0.0016	0.00045	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
Methyl tert-butyl ether	0.0016	U	0.0016	0.00081	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
Naphthalene	0.0024	U	0.0024	0.00065	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
n-Butylbenzene	0.00067	J	0.0016	0.00047	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
N-Propylbenzene	0.00052	J	0.0016	0.00028	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
sec-Butylbenzene	0.00060	J	0.0016	0.00046	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
tert-Butylbenzene	0.0016	U	0.0016	0.00044	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
Toluene	0.0013	J	0.0016	0.00037	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1
Xylenes, Total	0.0054		0.0032	0.00028	mg/Kg	☼	03/07/24 18:04	03/08/24 09:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		72 - 138	03/07/24 18:04	03/08/24 09:44	1
4-Bromofluorobenzene	99		63 - 139	03/07/24 18:04	03/08/24 09:44	1
Dibromofluoromethane (Surr)	83		54 - 150	03/07/24 18:04	03/08/24 09:44	1
Toluene-d8 (Surr)	90		71 - 126	03/07/24 18:04	03/08/24 09:44	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.15	J	0.38	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Acenaphthylene	0.057	J	0.38	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_S_6-8

Lab Sample ID: 460-299464-4

Date Collected: 03/06/24 08:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 85.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.41		0.38	0.012	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Benzo[a]anthracene	1.5		0.038	0.029	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Benzo[a]pyrene	1.6		0.038	0.010	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Benzo[b]fluoranthene	1.9		0.038	0.010	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Benzo[g,h,i]perylene	0.82		0.38	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Benzo[k]fluoranthene	0.70		0.038	0.0076	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Chrysene	1.6		0.38	0.016	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Dibenz(a,h)anthracene	0.23		0.038	0.017	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Fluoranthene	3.1		0.38	0.013	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Fluorene	0.11	J	0.38	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Indeno[1,2,3-cd]pyrene	0.94		0.038	0.015	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Naphthalene	0.12	J	0.38	0.0067	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Phenanthrene	2.4		0.38	0.016	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Pyrene	2.8		0.38	0.0096	mg/Kg	☼	03/07/24 19:32	03/08/24 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		24 - 137				03/07/24 19:32	03/08/24 15:44	1
2-Fluorobiphenyl	94		48 - 120				03/07/24 19:32	03/08/24 15:44	1
2-Fluorophenol (Surr)	86		31 - 120				03/07/24 19:32	03/08/24 15:44	1
Nitrobenzene-d5 (Surr)	82		38 - 120				03/07/24 19:32	03/08/24 15:44	1
Phenol-d5 (Surr)	89		39 - 120				03/07/24 19:32	03/08/24 15:44	1
Terphenyl-d14 (Surr)	97		25 - 126				03/07/24 19:32	03/08/24 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.3		1.0	1.0	%			03/07/24 16:56	1
Percent Solids (EPA Moisture)	85.7		1.0	1.0	%			03/07/24 16:56	1

Client Sample ID: E.UST.A_B_N_6-8

Lab Sample ID: 460-299464-5

Date Collected: 03/06/24 08:20

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 88.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.011		0.0015	0.00036	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
1,3,5-Trimethylbenzene	0.0071		0.0015	0.00046	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
4-Isopropyltoluene	0.0015	U	0.0015	0.00044	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
Benzene	0.0015	U	0.0015	0.00038	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
Ethylbenzene	0.0096		0.0015	0.00029	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
Isopropylbenzene	0.0018		0.0015	0.00042	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
Methyl tert-butyl ether	0.0015	U	0.0015	0.00075	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
Naphthalene	0.0022	U	0.0022	0.00060	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
n-Butylbenzene	0.0015	U	0.0015	0.00043	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
N-Propylbenzene	0.0019		0.0015	0.00026	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
sec-Butylbenzene	0.0015	U	0.0015	0.00042	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
tert-Butylbenzene	0.0015	U	0.0015	0.00040	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
Toluene	0.0079		0.0015	0.00034	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
Xylenes, Total	0.093		0.0029	0.00025	mg/Kg	☼	03/07/24 18:05	03/08/24 10:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		72 - 138				03/07/24 18:05	03/08/24 10:10	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: E.UST.A_B_N_6-8

Lab Sample ID: 460-299464-5

Date Collected: 03/06/24 08:20

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 88.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		63 - 139	03/07/24 18:05	03/08/24 10:10	1
Dibromofluoromethane (Surr)	85		54 - 150	03/07/24 18:05	03/08/24 10:10	1
Toluene-d8 (Surr)	90		71 - 126	03/07/24 18:05	03/08/24 10:10	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.042	J	0.37	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Acenaphthylene	0.042	J	0.37	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Anthracene	0.27	J	0.37	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Benzo[a]anthracene	1.4		0.037	0.028	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Benzo[a]pyrene	1.7		0.037	0.010	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Benzo[b]fluoranthene	1.9		0.037	0.0097	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Benzo[g,h,i]perylene	0.89		0.37	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Benzo[k]fluoranthene	0.70		0.037	0.0074	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Chrysene	1.4		0.37	0.016	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Dibenz(a,h)anthracene	0.25		0.037	0.016	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Fluoranthene	2.4		0.37	0.013	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Fluorene	0.045	J	0.37	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Indeno[1,2,3-cd]pyrene	1.1		0.037	0.015	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Naphthalene	0.076	J	0.37	0.0065	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Phenanthrene	1.0		0.37	0.015	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1
Pyrene	1.9		0.37	0.0093	mg/Kg	✱	03/07/24 19:32	03/08/24 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		24 - 137	03/07/24 19:32	03/08/24 16:07	1
2-Fluorobiphenyl	94		48 - 120	03/07/24 19:32	03/08/24 16:07	1
2-Fluorophenol (Surr)	82		31 - 120	03/07/24 19:32	03/08/24 16:07	1
Nitrobenzene-d5 (Surr)	83		38 - 120	03/07/24 19:32	03/08/24 16:07	1
Phenol-d5 (Surr)	90		39 - 120	03/07/24 19:32	03/08/24 16:07	1
Terphenyl-d14 (Surr)	101		25 - 126	03/07/24 19:32	03/08/24 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.0		1.0	1.0	%			03/07/24 16:56	1
Percent Solids (EPA Moisture)	88.0		1.0	1.0	%			03/07/24 16:56	1

Client Sample ID: E.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-6

Date Collected: 03/06/24 08:25

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 88.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.00094	J	0.0015	0.00037	mg/Kg	✱	03/07/24 18:06	03/08/24 10:34	1
1,3,5-Trimethylbenzene	0.00052	J	0.0015	0.00048	mg/Kg	✱	03/07/24 18:06	03/08/24 10:34	1
4-Isopropyltoluene	0.0015	U	0.0015	0.00045	mg/Kg	✱	03/07/24 18:06	03/08/24 10:34	1
Benzene	0.0015	U	0.0015	0.00039	mg/Kg	✱	03/07/24 18:06	03/08/24 10:34	1
Ethylbenzene	0.00076	J	0.0015	0.00030	mg/Kg	✱	03/07/24 18:06	03/08/24 10:34	1
Isopropylbenzene	0.0015	U	0.0015	0.00043	mg/Kg	✱	03/07/24 18:06	03/08/24 10:34	1
Methyl tert-butyl ether	0.0015	U	0.0015	0.00078	mg/Kg	✱	03/07/24 18:06	03/08/24 10:34	1
Naphthalene	0.0023	U	0.0023	0.00062	mg/Kg	✱	03/07/24 18:06	03/08/24 10:34	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: E.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-6

Date Collected: 03/06/24 08:25

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 88.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	0.0015	U	0.0015	0.00045	mg/Kg	☼	03/07/24 18:06	03/08/24 10:34	1
N-Propylbenzene	0.0015	U	0.0015	0.00027	mg/Kg	☼	03/07/24 18:06	03/08/24 10:34	1
sec-Butylbenzene	0.0015	U	0.0015	0.00044	mg/Kg	☼	03/07/24 18:06	03/08/24 10:34	1
tert-Butylbenzene	0.0015	U	0.0015	0.00042	mg/Kg	☼	03/07/24 18:06	03/08/24 10:34	1
Toluene	0.0029		0.0015	0.00036	mg/Kg	☼	03/07/24 18:06	03/08/24 10:34	1
Xylenes, Total	0.0064		0.0030	0.00026	mg/Kg	☼	03/07/24 18:06	03/08/24 10:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		72 - 138	03/07/24 18:06	03/08/24 10:34	1
4-Bromofluorobenzene	99		63 - 139	03/07/24 18:06	03/08/24 10:34	1
Dibromofluoromethane (Surr)	84		54 - 150	03/07/24 18:06	03/08/24 10:34	1
Toluene-d8 (Surr)	90		71 - 126	03/07/24 18:06	03/08/24 10:34	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.086	J	0.37	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Acenaphthylene	0.020	J	0.37	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Anthracene	0.24	J	0.37	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Benzo[a]anthracene	1.8		0.037	0.028	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Benzo[a]pyrene	2.5		0.037	0.010	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Benzo[b]fluoranthene	2.4		0.037	0.0097	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Benzo[g,h,i]perylene	0.95		0.37	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Benzo[k]fluoranthene	0.95		0.037	0.0074	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Chrysene	1.6		0.37	0.016	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Dibenz(a,h)anthracene	0.37		0.037	0.016	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Fluoranthene	1.2		0.37	0.013	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Fluorene	0.050	J	0.37	0.011	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Indeno[1,2,3-cd]pyrene	1.2		0.037	0.015	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Naphthalene	0.040	J	0.37	0.0065	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Phenanthrene	0.64		0.37	0.015	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1
Pyrene	1.3		0.37	0.0093	mg/Kg	☼	03/07/24 19:32	03/08/24 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		24 - 137	03/07/24 19:32	03/08/24 16:31	1
2-Fluorobiphenyl	96		48 - 120	03/07/24 19:32	03/08/24 16:31	1
2-Fluorophenol (Surr)	91		31 - 120	03/07/24 19:32	03/08/24 16:31	1
Nitrobenzene-d5 (Surr)	85		38 - 120	03/07/24 19:32	03/08/24 16:31	1
Phenol-d5 (Surr)	97		39 - 120	03/07/24 19:32	03/08/24 16:31	1
Terphenyl-d14 (Surr)	101		25 - 126	03/07/24 19:32	03/08/24 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.8		1.0	1.0	%			03/07/24 16:56	1
Percent Solids (EPA Moisture)	88.2		1.0	1.0	%			03/07/24 16:56	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: E.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-7

Date Collected: 03/06/24 08:30

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 87.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.0014		0.0014	0.00035	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
1,3,5-Trimethylbenzene	0.00075	J	0.0014	0.00045	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
4-Isopropyltoluene	0.0014	U	0.0014	0.00043	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
Benzene	0.0014	U	0.0014	0.00037	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
Ethylbenzene	0.0011	J	0.0014	0.00029	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
Isopropylbenzene	0.0014	U	0.0014	0.00041	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
Methyl tert-butyl ether	0.0014	U	0.0014	0.00074	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
Naphthalene	0.0022	U	0.0022	0.00059	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
n-Butylbenzene	0.0014	U	0.0014	0.00042	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
N-Propylbenzene	0.0014	U	0.0014	0.00025	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
sec-Butylbenzene	0.0014	U	0.0014	0.00041	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
tert-Butylbenzene	0.0014	U	0.0014	0.00040	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
Toluene	0.0035		0.0014	0.00034	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
Xylenes, Total	0.0094		0.0029	0.00025	mg/Kg	✱	03/07/24 18:07	03/08/24 10:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		72 - 138				03/07/24 18:07	03/08/24 10:59	1
4-Bromofluorobenzene	99		63 - 139				03/07/24 18:07	03/08/24 10:59	1
Dibromofluoromethane (Surr)	84		54 - 150				03/07/24 18:07	03/08/24 10:59	1
Toluene-d8 (Surr)	90		71 - 126				03/07/24 18:07	03/08/24 10:59	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.026	J	0.38	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Acenaphthylene	0.023	J	0.38	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Anthracene	0.080	J	0.38	0.012	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Benzo[a]anthracene	0.50		0.038	0.029	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Benzo[a]pyrene	0.67		0.038	0.010	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Benzo[b]fluoranthene	0.81		0.038	0.0098	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Benzo[g,h,i]perylene	0.39		0.38	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Benzo[k]fluoranthene	0.28		0.038	0.0074	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Chrysene	0.54		0.38	0.016	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Dibenz(a,h)anthracene	0.11		0.038	0.016	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Fluoranthene	0.77		0.38	0.013	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Fluorene	0.014	J	0.38	0.011	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Indeno[1,2,3-cd]pyrene	0.45		0.038	0.015	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Naphthalene	0.032	J	0.38	0.0065	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Phenanthrene	0.35	J	0.38	0.015	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Pyrene	0.75		0.38	0.0094	mg/Kg	✱	03/07/24 19:32	03/08/24 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		24 - 137				03/07/24 19:32	03/08/24 16:55	1
2-Fluorobiphenyl	96		48 - 120				03/07/24 19:32	03/08/24 16:55	1
2-Fluorophenol (Surr)	90		31 - 120				03/07/24 19:32	03/08/24 16:55	1
Nitrobenzene-d5 (Surr)	87		38 - 120				03/07/24 19:32	03/08/24 16:55	1
Phenol-d5 (Surr)	95		39 - 120				03/07/24 19:32	03/08/24 16:55	1
Terphenyl-d14 (Surr)	103		25 - 126				03/07/24 19:32	03/08/24 16:55	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: E.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-7

Date Collected: 03/06/24 08:30

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 87.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.9		1.0	1.0	%			03/07/24 16:56	1
Percent Solids (EPA Moisture)	87.1		1.0	1.0	%			03/07/24 16:56	1

Client Sample ID: E.UST.A_B_S_6-8

Lab Sample ID: 460-299464-8

Date Collected: 03/06/24 08:35

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.0015	U	0.0015	0.00038	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
1,3,5-Trimethylbenzene	0.0015	U	0.0015	0.00049	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
4-Isopropyltoluene	0.0015	U	0.0015	0.00046	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
Benzene	0.0015	U	0.0015	0.00040	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
Ethylbenzene	0.0015	U	0.0015	0.00031	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
Isopropylbenzene	0.0015	U	0.0015	0.00044	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
Methyl tert-butyl ether	0.0015	U	0.0015	0.00079	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
Naphthalene	0.0023	U	0.0023	0.00063	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
n-Butylbenzene	0.0015	U	0.0015	0.00045	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
N-Propylbenzene	0.0015	U	0.0015	0.00027	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
sec-Butylbenzene	0.0015	U	0.0015	0.00044	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
tert-Butylbenzene	0.0015	U	0.0015	0.00043	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
Toluene	0.00095	J	0.0015	0.00036	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1
Xylenes, Total	0.0012	J	0.0031	0.00027	mg/Kg	✳	03/07/24 18:08	03/08/24 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		72 - 138	03/07/24 18:08	03/08/24 11:24	1
4-Bromofluorobenzene	98		63 - 139	03/07/24 18:08	03/08/24 11:24	1
Dibromofluoromethane (Surr)	84		54 - 150	03/07/24 18:08	03/08/24 11:24	1
Toluene-d8 (Surr)	90		71 - 126	03/07/24 18:08	03/08/24 11:24	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.017	J	0.38	0.011	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Acenaphthylene	0.050	J	0.38	0.011	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Anthracene	0.067	J	0.38	0.012	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Benzo[a]anthracene	0.39		0.038	0.029	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Benzo[a]pyrene	0.51		0.038	0.010	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Benzo[b]fluoranthene	0.61		0.038	0.0099	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Benzo[g,h,i]perylene	0.37	J	0.38	0.011	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Benzo[k]fluoranthene	0.22		0.038	0.0075	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Chrysene	0.38		0.38	0.016	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Dibenz(a,h)anthracene	0.030	J	0.038	0.017	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Fluoranthene	0.55		0.38	0.013	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Fluorene	0.013	J	0.38	0.011	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Indeno[1,2,3-cd]pyrene	0.43		0.038	0.015	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Naphthalene	0.054	J	0.38	0.0066	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Phenanthrene	0.23	J	0.38	0.016	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1
Pyrene	0.54		0.38	0.0095	mg/Kg	✳	03/07/24 19:31	03/08/24 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		24 - 137	03/07/24 19:31	03/08/24 13:46	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: E.UST.A_B_S_6-8

Lab Sample ID: 460-299464-8

Date Collected: 03/06/24 08:35

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		48 - 120	03/07/24 19:31	03/08/24 13:46	1
2-Fluorophenol (Surr)	84		31 - 120	03/07/24 19:31	03/08/24 13:46	1
Nitrobenzene-d5 (Surr)	80		38 - 120	03/07/24 19:31	03/08/24 13:46	1
Phenol-d5 (Surr)	85		39 - 120	03/07/24 19:31	03/08/24 13:46	1
Terphenyl-d14 (Surr)	102		25 - 126	03/07/24 19:31	03/08/24 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.9		1.0	1.0	%			03/07/24 16:56	1
Percent Solids (EPA Moisture)	86.1		1.0	1.0	%			03/07/24 16:56	1

Client Sample ID: FB_030624_UST

Lab Sample ID: 460-299464-9

Date Collected: 03/06/24 09:25

Matrix: Water

Date Received: 03/06/24 19:00

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	10	U	10	1.1	ug/L		03/11/24 10:45	03/12/24 07:50	1
Acenaphthylene	10	U	10	0.82	ug/L		03/11/24 10:45	03/12/24 07:50	1
Anthracene	10	U	10	1.3	ug/L		03/11/24 10:45	03/12/24 07:50	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/11/24 10:45	03/12/24 07:50	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/11/24 10:45	03/12/24 07:50	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/11/24 10:45	03/12/24 07:50	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/11/24 10:45	03/12/24 07:50	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/11/24 10:45	03/12/24 07:50	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/11/24 10:45	03/12/24 07:50	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/11/24 10:45	03/12/24 07:50	1
Fluoranthene	10	U	10	0.84	ug/L		03/11/24 10:45	03/12/24 07:50	1
Fluorene	10	U	10	0.91	ug/L		03/11/24 10:45	03/12/24 07:50	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/11/24 10:45	03/12/24 07:50	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/11/24 10:45	03/12/24 07:50	1
Phenanthrene	10	U	10	1.3	ug/L		03/11/24 10:45	03/12/24 07:50	1
Pyrene	10	U	10	1.6	ug/L		03/11/24 10:45	03/12/24 07:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		37 - 150	03/11/24 10:45	03/12/24 07:50	1
2-Fluorobiphenyl	106		46 - 139	03/11/24 10:45	03/12/24 07:50	1
2-Fluorophenol (Surr)	34		16 - 80	03/11/24 10:45	03/12/24 07:50	1
Nitrobenzene-d5 (Surr)	107		51 - 145	03/11/24 10:45	03/12/24 07:50	1
Phenol-d5 (Surr)	19		10 - 56	03/11/24 10:45	03/12/24 07:50	1
Terphenyl-d14 (Surr)	66		13 - 150	03/11/24 10:45	03/12/24 07:50	1

Client Sample ID: Trip Blank

Lab Sample ID: 460-299464-10

Date Collected: 03/06/24 00:00

Matrix: Water

Date Received: 03/06/24 19:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			03/09/24 13:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/09/24 13:05	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-299464-10

Date Collected: 03/06/24 00:00

Matrix: Water

Date Received: 03/06/24 19:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	1.0	U	1.0	0.37	ug/L			03/09/24 13:05	1
Benzene	1.0	U	1.0	0.20	ug/L			03/09/24 13:05	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/09/24 13:05	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			03/09/24 13:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			03/09/24 13:05	1
Naphthalene	1.0	U	1.0	0.88	ug/L			03/09/24 13:05	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			03/09/24 13:05	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			03/09/24 13:05	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			03/09/24 13:05	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			03/09/24 13:05	1
Toluene	1.0	U	1.0	0.38	ug/L			03/09/24 13:05	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/09/24 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 128		03/09/24 13:05	1
4-Bromofluorobenzene	93		76 - 120		03/09/24 13:05	1
Dibromofluoromethane (Surr)	96		77 - 132		03/09/24 13:05	1
Toluene-d8 (Surr)	92		80 - 120		03/09/24 13:05	1

DRAFT

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Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (72-138)	BFB (63-139)	DBFM (54-150)	TOL (71-126)
460-299464-1	W.UST.A_B_N_6-8	79	99	84	90
460-299464-2	W.UST.A_B_C1_6-8	77	99	81	89
460-299464-3	W.UST.A_B_C2_6-8	77	103	80	93
460-299464-4	W.UST.A_B_S_6-8	78	99	83	90
460-299464-5	E.UST.A_B_N_6-8	80	101	85	90
460-299464-6	E.UST.A_B_C1_6-8	79	99	84	90
460-299464-7	E.UST.A_B_C2_6-8	78	99	84	90
460-299464-8	E.UST.A_B_S_6-8	80	98	84	90
LB3 460-962978/1-A	Method Blank	80	98	86	93
LCS 460-963053/3	Lab Control Sample	82	98	85	92
LCSD 460-963053/4	Lab Control Sample Dup	80	101	86	94
MB 460-963053/7	Method Blank	81	96	85	91

Surrogate Legend
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-128)	BFB (76-120)	DBFM (77-132)	TOL (80-120)
460-299464-10	Trip Blank	97	93	96	92
LCS 460-963237/3	Lab Control Sample	99	99	102	92
LCSD 460-963237/7	Lab Control Sample Dup	103	105	102	97
MB 460-963237/10	Method Blank	100	97	99	97

Surrogate Legend
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-137)	FBP (48-120)	2FP (31-120)	NBZ (38-120)	PHL (39-120)	TPHL (25-126)
460-299464-1	W.UST.A_B_N_6-8	96	98	95	90	99	104
460-299464-2	W.UST.A_B_C1_6-8	91	95	90	88	97	103
460-299464-3	W.UST.A_B_C2_6-8	86	85	76	76	84	94
460-299464-4	W.UST.A_B_S_6-8	85	94	86	82	89	97
460-299464-5	E.UST.A_B_N_6-8	93	94	82	83	90	101
460-299464-6	E.UST.A_B_C1_6-8	93	96	91	85	97	101
460-299464-7	E.UST.A_B_C2_6-8	92	96	90	87	95	103
460-299464-8	E.UST.A_B_S_6-8	100	90	84	80	85	102
460-299465-A-4-A MS	Matrix Spike	88	92	82	82	87	97

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-137)	FBP (48-120)	2FP (31-120)	NBZ (38-120)	PHL (39-120)	TPHL (25-126)
460-299465-A-4-B MSD	Matrix Spike Duplicate	93	89	75	78	86	103
460-299562-G-1-A MS	Matrix Spike	105	94	87	88	93	102
460-299562-G-1-B MSD	Matrix Spike Duplicate	103	95	87	87	93	101
LCS 460-963010/2-A	Lab Control Sample	113	99	96	94	98	107
LCS 460-963011/2-A	Lab Control Sample	101	95	86	90	101	105
LCSD 460-963010/3-A	Lab Control Sample Dup	114	99	94	91	99	107
LCSD 460-963011/3-A	Lab Control Sample Dup	103	103	99	98	105	107
MB 460-963010/1-A	Method Blank	100	88	88	86	90	105
MB 460-963011/1-A	Method Blank	105	98	86	92	93	111

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (37-150)	FBP (46-139)	2FP (16-80)	NBZ (51-145)	PHL (10-56)	TPHL (13-150)
460-299464-9	FB_030624_UST	86	106	34	107	19	66
LCS 460-963415/2-A	Lab Control Sample	110	105	37	98	25	84
LCSD 460-963415/3-A	Lab Control Sample Dup	107	98	35	93	23	80
MB 460-963415/1-A	Method Blank	81	97	29	100	18	70

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: LB3 460-962978/1-A
Matrix: Solid
Analysis Batch: 963053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 962978

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
4-Isopropyltoluene	0.0010	U	0.0010	0.00030	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
Naphthalene	0.0015	U	0.0015	0.00041	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg		03/07/24 18:00	03/08/24 08:05	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg		03/07/24 18:00	03/08/24 08:05	1

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	80		72 - 138	03/07/24 18:00	03/08/24 08:05	1
4-Bromofluorobenzene	98		63 - 139	03/07/24 18:00	03/08/24 08:05	1
Dibromofluoromethane (Surr)	86		54 - 150	03/07/24 18:00	03/08/24 08:05	1
Toluene-d8 (Surr)	93		71 - 126	03/07/24 18:00	03/08/24 08:05	1

Lab Sample ID: MB 460-963053/7
Matrix: Solid
Analysis Batch: 963053

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			03/08/24 07:36	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			03/08/24 07:36	1
4-Isopropyltoluene	0.0010	U	0.0010	0.00030	mg/Kg			03/08/24 07:36	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			03/08/24 07:36	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			03/08/24 07:36	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			03/08/24 07:36	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			03/08/24 07:36	1
Naphthalene	0.0015	U	0.0015	0.00041	mg/Kg			03/08/24 07:36	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			03/08/24 07:36	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			03/08/24 07:36	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			03/08/24 07:36	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			03/08/24 07:36	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			03/08/24 07:36	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			03/08/24 07:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	81		72 - 138		03/08/24 07:36	1
4-Bromofluorobenzene	96		63 - 139		03/08/24 07:36	1
Dibromofluoromethane (Surr)	85		54 - 150		03/08/24 07:36	1
Toluene-d8 (Surr)	91		71 - 126		03/08/24 07:36	1

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: LCS 460-963053/3

Matrix: Solid

Analysis Batch: 963053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1,2,4-Trimethylbenzene	0.0200	0.0186		mg/Kg		93	71 - 120	
1,3,5-Trimethylbenzene	0.0200	0.0184		mg/Kg		92	70 - 120	
4-Isopropyltoluene	0.0200	0.0189		mg/Kg		94	71 - 125	
Benzene	0.0200	0.0187		mg/Kg		93	75 - 130	
Ethylbenzene	0.0200	0.0195		mg/Kg		97	80 - 120	
Isopropylbenzene	0.0200	0.0197		mg/Kg		98	80 - 120	
Methyl tert-butyl ether	0.0200	0.0170		mg/Kg		85	74 - 125	
Naphthalene	0.0200	0.0188		mg/Kg		94	42 - 150	
n-Butylbenzene	0.0200	0.0180		mg/Kg		90	68 - 134	
N-Propylbenzene	0.0200	0.0190		mg/Kg		95	72 - 130	
sec-Butylbenzene	0.0200	0.0185		mg/Kg		93	65 - 136	
tert-Butylbenzene	0.0200	0.0193		mg/Kg		96	67 - 128	
Toluene	0.0200	0.0188		mg/Kg		94	80 - 120	
Xylenes, Total	0.0400	0.0391		mg/Kg		98	80 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	82		72 - 138
4-Bromofluorobenzene	98		63 - 139
Dibromofluoromethane (Surr)	85		54 - 150
Toluene-d8 (Surr)	92		71 - 126

Lab Sample ID: LCSD 460-963053/4

Matrix: Solid

Analysis Batch: 963053

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
									RPD	Limit
1,2,4-Trimethylbenzene	0.0200	0.0186		mg/Kg		93	71 - 120	0	30	
1,3,5-Trimethylbenzene	0.0200	0.0184		mg/Kg		92	70 - 120	0	30	
4-Isopropyltoluene	0.0200	0.0186		mg/Kg		93	71 - 125	1	30	
Benzene	0.0200	0.0183		mg/Kg		91	75 - 130	2	30	
Ethylbenzene	0.0200	0.0188		mg/Kg		94	80 - 120	3	30	
Isopropylbenzene	0.0200	0.0194		mg/Kg		97	80 - 120	1	30	
Methyl tert-butyl ether	0.0200	0.0162		mg/Kg		81	74 - 125	5	30	
Naphthalene	0.0200	0.0184		mg/Kg		92	42 - 150	3	30	
n-Butylbenzene	0.0200	0.0181		mg/Kg		90	68 - 134	0	30	
N-Propylbenzene	0.0200	0.0188		mg/Kg		94	72 - 130	1	30	
sec-Butylbenzene	0.0200	0.0186		mg/Kg		93	65 - 136	0	30	
tert-Butylbenzene	0.0200	0.0192		mg/Kg		96	67 - 128	0	30	
Toluene	0.0200	0.0184		mg/Kg		92	80 - 120	2	30	
Xylenes, Total	0.0400	0.0387		mg/Kg		97	80 - 120	1	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	80		72 - 138
4-Bromofluorobenzene	101		63 - 139
Dibromofluoromethane (Surr)	86		54 - 150
Toluene-d8 (Surr)	94		71 - 126

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: MB 460-963237/10

Matrix: Water

Analysis Batch: 963237

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			03/09/24 11:17	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/09/24 11:17	1
4-Isopropyltoluene	1.0	U	1.0	0.37	ug/L			03/09/24 11:17	1
Benzene	1.0	U	1.0	0.20	ug/L			03/09/24 11:17	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/09/24 11:17	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			03/09/24 11:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			03/09/24 11:17	1
Naphthalene	1.0	U	1.0	0.88	ug/L			03/09/24 11:17	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			03/09/24 11:17	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			03/09/24 11:17	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			03/09/24 11:17	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			03/09/24 11:17	1
Toluene	1.0	U	1.0	0.38	ug/L			03/09/24 11:17	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/09/24 11:17	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	100		70 - 128		03/09/24 11:17	1
4-Bromofluorobenzene	97		76 - 120		03/09/24 11:17	1
Dibromofluoromethane (Surr)	99		77 - 132		03/09/24 11:17	1
Toluene-d8 (Surr)	97		80 - 120		03/09/24 11:17	1

Lab Sample ID: LCS 460-963237/3

Matrix: Water

Analysis Batch: 963237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,2,4-Trimethylbenzene	20.0	20.9		ug/L		105	75 - 125
1,3,5-Trimethylbenzene	20.0	20.9		ug/L		104	75 - 125
4-Isopropyltoluene	20.0	22.1		ug/L		110	71 - 132
Benzene	20.0	20.9		ug/L		105	71 - 126
Ethylbenzene	20.0	20.9		ug/L		104	78 - 120
Isopropylbenzene	20.0	21.7		ug/L		108	79 - 125
Methyl tert-butyl ether	20.0	21.6		ug/L		108	72 - 131
Naphthalene	20.0	21.7		ug/L		108	44 - 120
n-Butylbenzene	20.0	21.2		ug/L		106	69 - 135
N-Propylbenzene	20.0	21.6		ug/L		108	68 - 129
sec-Butylbenzene	20.0	22.2		ug/L		111	68 - 129
tert-Butylbenzene	20.0	21.7		ug/L		109	62 - 120
Toluene	20.0	20.1		ug/L		101	78 - 120
Xylenes, Total	40.0	41.4		ug/L		103	80 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		70 - 128
4-Bromofluorobenzene	99		76 - 120
Dibromofluoromethane (Surr)	102		77 - 132
Toluene-d8 (Surr)	92		80 - 120

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: LCSD 460-963237/7

Matrix: Water

Analysis Batch: 963237

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	20.0	17.9		ug/L		90	75 - 125	15	30
1,3,5-Trimethylbenzene	20.0	17.9		ug/L		89	75 - 125	15	30
4-Isopropyltoluene	20.0	18.5		ug/L		93	71 - 132	17	30
Benzene	20.0	18.6		ug/L		93	71 - 126	12	30
Ethylbenzene	20.0	18.7		ug/L		94	78 - 120	11	30
Isopropylbenzene	20.0	19.6		ug/L		98	79 - 125	10	30
Methyl tert-butyl ether	20.0	19.1		ug/L		95	72 - 131	12	30
Naphthalene	20.0	18.3		ug/L		91	44 - 120	17	30
n-Butylbenzene	20.0	17.1		ug/L		86	69 - 135	21	30
N-Propylbenzene	20.0	18.3		ug/L		92	68 - 129	16	30
sec-Butylbenzene	20.0	18.5		ug/L		92	68 - 129	18	30
tert-Butylbenzene	20.0	18.2		ug/L		91	62 - 120	17	30
Toluene	20.0	18.6		ug/L		93	78 - 120	8	30
Xylenes, Total	40.0	36.2		ug/L		90	80 - 120	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 128
4-Bromofluorobenzene	105		76 - 120
Dibromofluoromethane (Surr)	102		77 - 132
Toluene-d8 (Surr)	97		80 - 120

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

Lab Sample ID: MB 460-963010/1-A

Matrix: Solid

Analysis Batch: 963065

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 963010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.33	U	0.33	0.0094	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Acenaphthylene	0.33	U	0.33	0.0095	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Anthracene	0.33	U	0.33	0.010	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Benzo[a]anthracene	0.033	U	0.033	0.025	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0098	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Chrysene	0.33	U	0.33	0.014	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Fluoranthene	0.33	U	0.33	0.012	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Fluorene	0.33	U	0.33	0.0097	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Phenanthrene	0.33	U	0.33	0.014	mg/Kg		03/07/24 19:31	03/08/24 06:51	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		03/07/24 19:31	03/08/24 06:51	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		24 - 137	03/07/24 19:31	03/08/24 06:51	1
2-Fluorobiphenyl	88		48 - 120	03/07/24 19:31	03/08/24 06:51	1

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: MB 460-963010/1-A
Matrix: Solid
Analysis Batch: 963065

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 963010

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol (Surr)	88		31 - 120	03/07/24 19:31	03/08/24 06:51	1
Nitrobenzene-d5 (Surr)	86		38 - 120	03/07/24 19:31	03/08/24 06:51	1
Phenol-d5 (Surr)	90		39 - 120	03/07/24 19:31	03/08/24 06:51	1
Terphenyl-d14 (Surr)	105		25 - 126	03/07/24 19:31	03/08/24 06:51	1

Lab Sample ID: LCS 460-963010/2-A
Matrix: Solid
Analysis Batch: 963065

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 963010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	3.33	2.81		mg/Kg		84	64 - 120
Anthracene	3.33	2.95		mg/Kg		88	67 - 120
Benzo[a]anthracene	3.33	3.16		mg/Kg		95	69 - 120
Benzo[a]pyrene	3.33	3.33		mg/Kg		100	66 - 123
Benzo[b]fluoranthene	3.33	3.04		mg/Kg		91	70 - 125
Benzo[g,h,i]perylene	3.33	2.97		mg/Kg		89	66 - 120
Benzo[k]fluoranthene	3.33	3.16		mg/Kg		95	71 - 122
Chrysene	3.33	3.25		mg/Kg		98	63 - 120
Dibenz(a,h)anthracene	3.33	3.35		mg/Kg		101	66 - 128
Fluoranthene	3.33	3.05		mg/Kg		91	66 - 120
Fluorene	3.33	2.97		mg/Kg		89	70 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.09		mg/Kg		93	62 - 148
Naphthalene	3.33	2.87		mg/Kg		86	63 - 120
Phenanthrene	3.33	2.92		mg/Kg		88	66 - 120
Pyrene	3.33	3.19		mg/Kg		96	67 - 121

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	113		24 - 137
2-Fluorobiphenyl	99		48 - 120
2-Fluorophenol (Surr)	96		31 - 120
Nitrobenzene-d5 (Surr)	94		38 - 120
Phenol-d5 (Surr)	98		39 - 120
Terphenyl-d14 (Surr)	107		25 - 126

Lab Sample ID: LCSD 460-963010/3-A
Matrix: Solid
Analysis Batch: 963065

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 963010

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Acenaphthene	3.33	3.05		mg/Kg		91	61 - 120	1	30
Acenaphthylene	3.33	2.82		mg/Kg		85	64 - 120	1	30
Anthracene	3.33	2.95		mg/Kg		89	67 - 120	0	30
Benzo[a]anthracene	3.33	3.18		mg/Kg		95	69 - 120	1	30
Benzo[a]pyrene	3.33	3.38		mg/Kg		101	66 - 123	1	30
Benzo[b]fluoranthene	3.33	3.14		mg/Kg		94	70 - 125	3	30
Benzo[g,h,i]perylene	3.33	3.02		mg/Kg		91	66 - 120	2	30
Benzo[k]fluoranthene	3.33	3.14		mg/Kg		94	71 - 122	1	30

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: LCSD 460-963010/3-A

Matrix: Solid

Analysis Batch: 963065

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 963010

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Chrysene	3.33	3.22		mg/Kg		97	63 - 120	1	30	
Dibenz(a,h)anthracene	3.33	3.33		mg/Kg		100	66 - 128	1	30	
Fluoranthene	3.33	3.02		mg/Kg		91	66 - 120	1	30	
Fluorene	3.33	2.97		mg/Kg		89	70 - 120	0	30	
Indeno[1,2,3-cd]pyrene	3.33	3.22		mg/Kg		97	62 - 148	4	30	
Naphthalene	3.33	2.83		mg/Kg		85	63 - 120	1	30	
Phenanthrene	3.33	2.96		mg/Kg		89	66 - 120	1	30	
Pyrene	3.33	3.17		mg/Kg		95	67 - 121	0	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	114		24 - 137
2-Fluorobiphenyl	99		48 - 120
2-Fluorophenol (Surr)	94		31 - 120
Nitrobenzene-d5 (Surr)	91		38 - 120
Phenol-d5 (Surr)	99		39 - 120
Terphenyl-d14 (Surr)	107		25 - 126

Lab Sample ID: 460-299562-G-1-A MS

Matrix: Solid

Analysis Batch: 963065

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 963010

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Acenaphthene	0.38	U	3.80	3.41		mg/Kg	✱	90	61 - 120	
Acenaphthylene	0.38	U	3.80	3.19		mg/Kg	✱	84	64 - 120	
Anthracene	0.38	U	3.80	3.26		mg/Kg	✱	86	67 - 120	
Benzo[a]anthracene	0.038	U	3.80	3.58		mg/Kg	✱	94	69 - 120	
Benzo[a]pyrene	0.038	U	3.80	3.84		mg/Kg	✱	101	66 - 123	
Benzo[b]fluoranthene	0.038	U	3.80	3.67		mg/Kg	✱	97	70 - 125	
Benzo[g,h,i]perylene	0.38	U	3.80	2.97		mg/Kg	✱	78	66 - 120	
Benzo[k]fluoranthene	0.038	U	3.80	3.33		mg/Kg	✱	88	71 - 122	
Chrysene	0.38	U	3.80	3.63		mg/Kg	✱	96	63 - 120	
Dibenz(a,h)anthracene	0.038	U	3.80	3.67		mg/Kg	✱	97	66 - 128	
Fluoranthene	0.38	U	3.80	3.37		mg/Kg	✱	89	66 - 120	
Fluorene	0.38	U	3.80	3.34		mg/Kg	✱	88	70 - 120	
Indeno[1,2,3-cd]pyrene	0.038	U	3.80	3.45		mg/Kg	✱	91	62 - 148	
Naphthalene	0.38	U	3.80	3.20		mg/Kg	✱	84	63 - 120	
Phenanthrene	0.38	U	3.80	3.24		mg/Kg	✱	85	66 - 120	
Pyrene	0.38	U	3.80	3.51		mg/Kg	✱	93	67 - 121	

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	105		24 - 137
2-Fluorobiphenyl	94		48 - 120
2-Fluorophenol (Surr)	87		31 - 120
Nitrobenzene-d5 (Surr)	88		38 - 120
Phenol-d5 (Surr)	93		39 - 120
Terphenyl-d14 (Surr)	102		25 - 126

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: 460-299562-G-1-B MSD

Matrix: Solid

Analysis Batch: 963065

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 963010

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Acenaphthene	0.38	U	3.79	3.33		mg/Kg	☼	88	61 - 120	2	30
Acenaphthylene	0.38	U	3.79	3.14		mg/Kg	☼	83	64 - 120	2	30
Anthracene	0.38	U	3.79	3.23		mg/Kg	☼	85	67 - 120	1	30
Benzo[a]anthracene	0.038	U	3.79	3.50		mg/Kg	☼	92	69 - 120	2	30
Benzo[a]pyrene	0.038	U	3.79	3.75		mg/Kg	☼	99	66 - 123	2	30
Benzo[b]fluoranthene	0.038	U	3.79	3.68		mg/Kg	☼	97	70 - 125	0	30
Benzo[g,h,i]perylene	0.38	U	3.79	3.04		mg/Kg	☼	80	66 - 120	3	30
Benzo[k]fluoranthene	0.038	U	3.79	3.29		mg/Kg	☼	87	71 - 122	1	30
Chrysene	0.38	U	3.79	3.54		mg/Kg	☼	93	63 - 120	3	30
Dibenz(a,h)anthracene	0.038	U	3.79	3.70		mg/Kg	☼	98	66 - 128	1	30
Fluoranthene	0.38	U	3.79	3.32		mg/Kg	☼	87	66 - 120	2	30
Fluorene	0.38	U	3.79	3.28		mg/Kg	☼	87	70 - 120	2	30
Indeno[1,2,3-cd]pyrene	0.038	U	3.79	3.49		mg/Kg	☼	92	62 - 148	1	30
Naphthalene	0.38	U	3.79	3.09		mg/Kg	☼	82	63 - 120	3	30
Phenanthrene	0.38	U	3.79	3.23		mg/Kg	☼	85	66 - 120	1	30
Pyrene	0.38	U	3.79	3.45		mg/Kg	☼	91	67 - 121	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	103		24 - 137
2-Fluorobiphenyl	95		48 - 120
2-Fluorophenol (Surr)	87		31 - 120
Nitrobenzene-d5 (Surr)	87		38 - 120
Phenol-d5 (Surr)	93		39 - 120
Terphenyl-d14 (Surr)	101		25 - 126

Lab Sample ID: MB 460-963011/1-A

Matrix: Solid

Analysis Batch: 963068

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 963011

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	0.33	U	0.33	0.0094	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Acenaphthylene	0.33	U	0.33	0.0095	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Anthracene	0.33	U	0.33	0.010	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Benzo[a]anthracene	0.033	U	0.033	0.025	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0098	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Chrysene	0.33	U	0.33	0.014	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Fluoranthene	0.33	U	0.33	0.012	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Fluorene	0.33	U	0.33	0.0097	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Phenanthrene	0.33	U	0.33	0.014	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		03/07/24 19:32	03/08/24 07:18	1

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: MB 460-963011/1-A

Matrix: Solid

Analysis Batch: 963068

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 963011

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	105		24 - 137	03/07/24 19:32	03/08/24 07:18	1
2-Fluorobiphenyl	98		48 - 120	03/07/24 19:32	03/08/24 07:18	1
2-Fluorophenol (Surr)	86		31 - 120	03/07/24 19:32	03/08/24 07:18	1
Nitrobenzene-d5 (Surr)	92		38 - 120	03/07/24 19:32	03/08/24 07:18	1
Phenol-d5 (Surr)	93		39 - 120	03/07/24 19:32	03/08/24 07:18	1
Terphenyl-d14 (Surr)	111		25 - 126	03/07/24 19:32	03/08/24 07:18	1

Lab Sample ID: LCS 460-963011/2-A

Matrix: Solid

Analysis Batch: 963068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 963011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Acenaphthene	3.33	2.98		mg/Kg		89	61 - 120	
Acenaphthylene	3.33	2.71		mg/Kg		81	64 - 120	
Anthracene	3.33	2.90		mg/Kg		87	67 - 120	
Benzo[a]anthracene	3.33	3.04		mg/Kg		91	69 - 120	
Benzo[a]pyrene	3.33	3.18		mg/Kg		95	66 - 123	
Benzo[b]fluoranthene	3.33	2.98		mg/Kg		89	70 - 125	
Benzo[g,h,i]perylene	3.33	3.05		mg/Kg		92	66 - 120	
Benzo[k]fluoranthene	3.33	3.08		mg/Kg		93	71 - 122	
Chrysene	3.33	3.18		mg/Kg		96	63 - 120	
Dibenz(a,h)anthracene	3.33	3.31		mg/Kg		99	66 - 128	
Fluoranthene	3.33	2.98		mg/Kg		90	66 - 120	
Fluorene	3.33	2.90		mg/Kg		87	70 - 120	
Indeno[1,2,3-cd]pyrene	3.33	3.72		mg/Kg		112	62 - 148	
Naphthalene	3.33	2.79		mg/Kg		84	63 - 120	
Phenanthrene	3.33	2.94		mg/Kg		88	66 - 120	
Pyrene	3.33	3.17		mg/Kg		95	67 - 121	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	101		24 - 137
2-Fluorobiphenyl	95		48 - 120
2-Fluorophenol (Surr)	86		31 - 120
Nitrobenzene-d5 (Surr)	90		38 - 120
Phenol-d5 (Surr)	101		39 - 120
Terphenyl-d14 (Surr)	105		25 - 126

Lab Sample ID: LCSD 460-963011/3-A

Matrix: Solid

Analysis Batch: 963068

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 963011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Acenaphthene	3.33	3.10		mg/Kg		93	61 - 120	4	30	
Acenaphthylene	3.33	2.91		mg/Kg		87	64 - 120	7	30	
Anthracene	3.33	3.05		mg/Kg		92	67 - 120	5	30	
Benzo[a]anthracene	3.33	3.15		mg/Kg		94	69 - 120	3	30	
Benzo[a]pyrene	3.33	3.36		mg/Kg		101	66 - 123	5	30	
Benzo[b]fluoranthene	3.33	3.06		mg/Kg		92	70 - 125	3	30	

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: LCSD 460-963011/3-A

Matrix: Solid

Analysis Batch: 963068

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 963011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	3.33	3.22		mg/Kg		97	66 - 120	5	30
Benzo[k]fluoranthene	3.33	3.18		mg/Kg		96	71 - 122	3	30
Chrysene	3.33	3.40		mg/Kg		102	63 - 120	6	30
Dibenz(a,h)anthracene	3.33	3.48		mg/Kg		104	66 - 128	5	30
Fluoranthene	3.33	3.06		mg/Kg		92	66 - 120	3	30
Fluorene	3.33	3.00		mg/Kg		90	70 - 120	3	30
Indeno[1,2,3-cd]pyrene	3.33	3.54		mg/Kg		106	62 - 148	5	30
Naphthalene	3.33	3.00		mg/Kg		90	63 - 120	7	30
Phenanthrene	3.33	3.05		mg/Kg		92	66 - 120	4	30
Pyrene	3.33	3.23		mg/Kg		97	67 - 121	2	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	103		24 - 137
2-Fluorobiphenyl	103		48 - 120
2-Fluorophenol (Surr)	99		31 - 120
Nitrobenzene-d5 (Surr)	98		38 - 120
Phenol-d5 (Surr)	105		39 - 120
Terphenyl-d14 (Surr)	107		25 - 126

Lab Sample ID: 460-299465-A-4-A MS

Matrix: Solid

Analysis Batch: 963068

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 963011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.13	J	4.08	3.89		mg/Kg	✖	92	61 - 120
Acenaphthylene	0.11	J	4.08	3.32		mg/Kg	✖	79	64 - 120
Anthracene	0.40		4.08	4.34		mg/Kg	✖	97	67 - 120
Benzo[a]anthracene	1.4		4.08	6.23		mg/Kg	✖	117	69 - 120
Benzo[a]pyrene	1.3		4.08	6.24		mg/Kg	✖	120	66 - 123
Benzo[b]fluoranthene	1.7		4.08	6.49		mg/Kg	✖	119	70 - 125
Benzo[g,h,i]perylene	0.83		4.08	4.29		mg/Kg	✖	85	66 - 120
Benzo[k]fluoranthene	0.62		4.08	4.64		mg/Kg	✖	99	71 - 122
Chrysene	1.5		4.08	6.75	*	mg/Kg	✖	129	63 - 120
Dibenz(a,h)anthracene	0.22		4.08	3.88		mg/Kg	✖	90	66 - 128
Fluoranthene	2.8		4.08	8.90	*	mg/Kg	✖	149	66 - 120
Fluorene	0.10	J	4.08	3.59		mg/Kg	✖	86	70 - 120
Indeno[1,2,3-cd]pyrene	0.94		4.08	5.26		mg/Kg	✖	106	62 - 148
Naphthalene	0.16	J	4.08	3.99		mg/Kg	✖	94	63 - 120
Phenanthrene	1.7		4.08	8.51	*	mg/Kg	✖	167	66 - 120
Pyrene	2.7		4.08	8.77	*	mg/Kg	✖	149	67 - 121

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	88		24 - 137
2-Fluorobiphenyl	92		48 - 120
2-Fluorophenol (Surr)	82		31 - 120
Nitrobenzene-d5 (Surr)	82		38 - 120
Phenol-d5 (Surr)	87		39 - 120
Terphenyl-d14 (Surr)	97		25 - 126

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: 460-299465-A-4-B MSD

Matrix: Solid

Analysis Batch: 963068

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 963011

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Acenaphthene	0.13	J	4.08	4.76		mg/Kg	☼	114	61 - 120	20	30
Acenaphthylene	0.11	J	4.08	3.49		mg/Kg	☼	83	64 - 120	5	30
Anthracene	0.40		4.08	6.71	*	mg/Kg	☼	154	67 - 120	43	30
Benzo[a]anthracene	1.4		4.08	10.4	E *	mg/Kg	☼	220	69 - 120	50	30
Benzo[a]pyrene	1.3		4.08	8.94	*	mg/Kg	☼	186	66 - 123	35	30
Benzo[b]fluoranthene	1.7		4.08	10.5	E *	mg/Kg	☼	216	70 - 125	47	30
Benzo[g,h,i]perylene	0.83		4.08	4.81		mg/Kg	☼	97	66 - 120	11	30
Benzo[k]fluoranthene	0.62		4.08	5.84	*	mg/Kg	☼	128	71 - 122	23	30
Chrysene	1.5		4.08	10.5	E *	mg/Kg	☼	221	63 - 120	44	30
Dibenz(a,h)anthracene	0.22		4.08	3.67		mg/Kg	☼	84	66 - 128	6	30
Fluoranthene	2.8		4.08	16.0	E *	mg/Kg	☼	324	66 - 120	57	30
Fluorene	0.10	J	4.08	4.44		mg/Kg	☼	106	70 - 120	21	30
Indeno[1,2,3-cd]pyrene	0.94		4.08	5.34		mg/Kg	☼	108	62 - 148	2	30
Naphthalene	0.16	J	4.08	3.71		mg/Kg	☼	87	63 - 120	7	30
Phenanthrene	1.7		4.08	17.6	E *	mg/Kg	☼	390	66 - 120	70	30
Pyrene	2.7		4.08	16.0	E *	mg/Kg	☼	325	67 - 121	58	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		24 - 137
2-Fluorobiphenyl	89		48 - 120
2-Fluorophenol (Surr)	75		31 - 120
Nitrobenzene-d5 (Surr)	78		38 - 120
Phenol-d5 (Surr)	86		39 - 120
Terphenyl-d14 (Surr)	103		25 - 126

Lab Sample ID: MB 460-963415/1-A

Matrix: Water

Analysis Batch: 963550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 963415

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	10	U	10	1.1	ug/L		03/11/24 10:45	03/12/24 05:01	1
Acenaphthylene	10	U	10	0.82	ug/L		03/11/24 10:45	03/12/24 05:01	1
Anthracene	10	U	10	1.3	ug/L		03/11/24 10:45	03/12/24 05:01	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/11/24 10:45	03/12/24 05:01	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/11/24 10:45	03/12/24 05:01	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/11/24 10:45	03/12/24 05:01	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/11/24 10:45	03/12/24 05:01	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/11/24 10:45	03/12/24 05:01	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/11/24 10:45	03/12/24 05:01	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/11/24 10:45	03/12/24 05:01	1
Fluoranthene	10	U	10	0.84	ug/L		03/11/24 10:45	03/12/24 05:01	1
Fluorene	10	U	10	0.91	ug/L		03/11/24 10:45	03/12/24 05:01	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/11/24 10:45	03/12/24 05:01	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/11/24 10:45	03/12/24 05:01	1
Phenanthrene	10	U	10	1.3	ug/L		03/11/24 10:45	03/12/24 05:01	1
Pyrene	10	U	10	1.6	ug/L		03/11/24 10:45	03/12/24 05:01	1

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: MB 460-963415/1-A

Matrix: Water

Analysis Batch: 963550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 963415

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	81		37 - 150	03/11/24 10:45	03/12/24 05:01	1
2-Fluorobiphenyl	97		46 - 139	03/11/24 10:45	03/12/24 05:01	1
2-Fluorophenol (Surr)	29		16 - 80	03/11/24 10:45	03/12/24 05:01	1
Nitrobenzene-d5 (Surr)	100		51 - 145	03/11/24 10:45	03/12/24 05:01	1
Phenol-d5 (Surr)	18		10 - 56	03/11/24 10:45	03/12/24 05:01	1
Terphenyl-d14 (Surr)	70		13 - 150	03/11/24 10:45	03/12/24 05:01	1

Lab Sample ID: LCS 460-963415/2-A

Matrix: Water

Analysis Batch: 963550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 963415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Acenaphthene	80.0	81.3		ug/L		102	57 - 132	
Acenaphthylene	80.0	73.6		ug/L		92	54 - 120	
Anthracene	80.0	82.8		ug/L		104	65 - 120	
Benzo[a]anthracene	80.0	87.8		ug/L		110	67 - 132	
Benzo[a]pyrene	80.0	87.6		ug/L		109	60 - 126	
Benzo[b]fluoranthene	80.0	84.0		ug/L		105	66 - 136	
Benzo[g,h,i]perylene	80.0	80.3		ug/L		100	59 - 150	
Benzo[k]fluoranthene	80.0	87.2		ug/L		109	64 - 135	
Chrysene	80.0	88.1		ug/L		110	63 - 127	
Dibenz(a,h)anthracene	80.0	86.3		ug/L		108	62 - 150	
Fluoranthene	80.0	88.4		ug/L		111	65 - 130	
Fluorene	80.0	81.0		ug/L		101	63 - 133	
Indeno[1,2,3-cd]pyrene	80.0	93.8		ug/L		117	65 - 150	
Naphthalene	80.0	67.1		ug/L		84	43 - 120	
Phenanthrene	80.0	82.0		ug/L		102	65 - 120	
Pyrene	80.0	82.9		ug/L		104	56 - 144	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	110		37 - 150
2-Fluorobiphenyl	105		46 - 139
2-Fluorophenol (Surr)	37		16 - 80
Nitrobenzene-d5 (Surr)	98		51 - 145
Phenol-d5 (Surr)	25		10 - 56
Terphenyl-d14 (Surr)	84		13 - 150

Lab Sample ID: LCSD 460-963415/3-A

Matrix: Water

Analysis Batch: 963550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 963415

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Acenaphthene	80.0	77.9		ug/L		97	57 - 132	4	30	
Acenaphthylene	80.0	69.3		ug/L		87	54 - 120	6	30	
Anthracene	80.0	77.7		ug/L		97	65 - 120	6	30	
Benzo[a]anthracene	80.0	83.7		ug/L		105	67 - 132	5	30	
Benzo[a]pyrene	80.0	83.6		ug/L		104	60 - 126	5	30	
Benzo[b]fluoranthene	80.0	80.0		ug/L		100	66 - 136	5	30	

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

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

Lab Sample ID: LCSD 460-963415/3-A
Matrix: Water
Analysis Batch: 963550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 963415

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzo[g,h,i]perylene	80.0	76.2		ug/L		95	59 - 150	5	30
Benzo[k]fluoranthene	80.0	81.8		ug/L		102	64 - 135	6	30
Chrysene	80.0	83.6		ug/L		105	63 - 127	5	30
Dibenz(a,h)anthracene	80.0	81.7		ug/L		102	62 - 150	5	30
Fluoranthene	80.0	83.0		ug/L		104	65 - 130	6	30
Fluorene	80.0	77.3		ug/L		97	63 - 133	5	30
Indeno[1,2,3-cd]pyrene	80.0	89.1		ug/L		111	65 - 150	5	30
Naphthalene	80.0	64.3		ug/L		80	43 - 120	4	30
Phenanthrene	80.0	77.1		ug/L		96	65 - 120	6	30
Pyrene	80.0	78.7		ug/L		98	56 - 144	5	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	107		37 - 150
2-Fluorobiphenyl	98		46 - 139
2-Fluorophenol (Surr)	35		16 - 80
Nitrobenzene-d5 (Surr)	93		51 - 145
Phenol-d5 (Surr)	23		10 - 56
Terphenyl-d14 (Surr)	80		13 - 150

Method: Moisture - Percent Moisture

Lab Sample ID: 460-299437-A-3 DU
Matrix: Solid
Analysis Batch: 962969

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Percent Moisture	29.8		29.8		%		0.1	20
Percent Solids	70.2		70.2		%		0.05	20

Lab Sample ID: 460-299471-A-5 DU
Matrix: Solid
Analysis Batch: 962969

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Percent Moisture	12.2		12.0		%		2	20
Percent Solids	87.8		88.0		%		0.3	20

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

GC/MS VOA

Prep Batch: 962978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-1	W.UST.A_B_N_6-8	Total/NA	Solid	5035	
460-299464-2	W.UST.A_B_C1_6-8	Total/NA	Solid	5035	
460-299464-3	W.UST.A_B_C2_6-8	Total/NA	Solid	5035	
460-299464-4	W.UST.A_B_S_6-8	Total/NA	Solid	5035	
460-299464-5	E.UST.A_B_N_6-8	Total/NA	Solid	5035	
460-299464-6	E.UST.A_B_C1_6-8	Total/NA	Solid	5035	
460-299464-7	E.UST.A_B_C2_6-8	Total/NA	Solid	5035	
460-299464-8	E.UST.A_B_S_6-8	Total/NA	Solid	5035	
LB3 460-962978/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 963053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-1	W.UST.A_B_N_6-8	Total/NA	Solid	8260D	962978
460-299464-2	W.UST.A_B_C1_6-8	Total/NA	Solid	8260D	962978
460-299464-3	W.UST.A_B_C2_6-8	Total/NA	Solid	8260D	962978
460-299464-4	W.UST.A_B_S_6-8	Total/NA	Solid	8260D	962978
460-299464-5	E.UST.A_B_N_6-8	Total/NA	Solid	8260D	962978
460-299464-6	E.UST.A_B_C1_6-8	Total/NA	Solid	8260D	962978
460-299464-7	E.UST.A_B_C2_6-8	Total/NA	Solid	8260D	962978
460-299464-8	E.UST.A_B_S_6-8	Total/NA	Solid	8260D	962978
LB3 460-962978/1-A	Method Blank	Total/NA	Solid	8260D	962978
MB 460-963053/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-963053/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-963053/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 963237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-10	Trip Blank	Total/NA	Water	8260D	
MB 460-963237/10	Method Blank	Total/NA	Water	8260D	
LCS 460-963237/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-963237/7	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 963010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-8	E.UST.A_B_S_6-8	Total/NA	Solid	3546	
MB 460-963010/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-963010/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-963010/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-299562-G-1-A MS	Matrix Spike	Total/NA	Solid	3546	
460-299562-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 963011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-1	W.UST.A_B_N_6-8	Total/NA	Solid	3546	
460-299464-2	W.UST.A_B_C1_6-8	Total/NA	Solid	3546	
460-299464-3	W.UST.A_B_C2_6-8	Total/NA	Solid	3546	
460-299464-4	W.UST.A_B_S_6-8	Total/NA	Solid	3546	
460-299464-5	E.UST.A_B_N_6-8	Total/NA	Solid	3546	
460-299464-6	E.UST.A_B_C1_6-8	Total/NA	Solid	3546	

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

GC/MS Semi VOA (Continued)

Prep Batch: 963011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-7	E.UST.A_B_C2_6-8	Total/NA	Solid	3546	
MB 460-963011/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-963011/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-963011/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-299465-A-4-A MS	Matrix Spike	Total/NA	Solid	3546	
460-299465-A-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 963065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-8	E.UST.A_B_S_6-8	Total/NA	Solid	8270E	963010
MB 460-963010/1-A	Method Blank	Total/NA	Solid	8270E	963010
LCS 460-963010/2-A	Lab Control Sample	Total/NA	Solid	8270E	963010
LCSD 460-963010/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	963010
460-299562-G-1-A MS	Matrix Spike	Total/NA	Solid	8270E	963010
460-299562-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	963010

Analysis Batch: 963068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-1	W.UST.A_B_N_6-8	Total/NA	Solid	8270E	963011
460-299464-2	W.UST.A_B_C1_6-8	Total/NA	Solid	8270E	963011
460-299464-3	W.UST.A_B_C2_6-8	Total/NA	Solid	8270E	963011
460-299464-4	W.UST.A_B_S_6-8	Total/NA	Solid	8270E	963011
460-299464-5	E.UST.A_B_N_6-8	Total/NA	Solid	8270E	963011
460-299464-6	E.UST.A_B_C1_6-8	Total/NA	Solid	8270E	963011
460-299464-7	E.UST.A_B_C2_6-8	Total/NA	Solid	8270E	963011
MB 460-963011/1-A	Method Blank	Total/NA	Solid	8270E	963011
LCS 460-963011/2-A	Lab Control Sample	Total/NA	Solid	8270E	963011
LCSD 460-963011/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	963011
460-299465-A-4-A MS	Matrix Spike	Total/NA	Solid	8270E	963011
460-299465-A-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	963011

Prep Batch: 963415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-9	FB_030624_UST	Total/NA	Water	3510C	
MB 460-963415/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-963415/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-963415/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 963550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-9	FB_030624_UST	Total/NA	Water	8270E	963415
MB 460-963415/1-A	Method Blank	Total/NA	Water	8270E	963415
LCS 460-963415/2-A	Lab Control Sample	Total/NA	Water	8270E	963415
LCSD 460-963415/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	963415

General Chemistry

Analysis Batch: 962969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-1	W.UST.A_B_N_6-8	Total/NA	Solid	Moisture	
460-299464-2	W.UST.A_B_C1_6-8	Total/NA	Solid	Moisture	

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

General Chemistry (Continued)

Analysis Batch: 962969 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299464-3	W.UST.A_B_C2_6-8	Total/NA	Solid	Moisture	
460-299464-4	W.UST.A_B_S_6-8	Total/NA	Solid	Moisture	
460-299464-5	E.UST.A_B_N_6-8	Total/NA	Solid	Moisture	
460-299464-6	E.UST.A_B_C1_6-8	Total/NA	Solid	Moisture	
460-299464-7	E.UST.A_B_C2_6-8	Total/NA	Solid	Moisture	
460-299464-8	E.UST.A_B_S_6-8	Total/NA	Solid	Moisture	
460-299465-A-4 MS	Matrix Spike	Total/NA	Solid	Moisture	
460-299465-A-4 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
460-299437-A-3 DU	Duplicate	Total/NA	Solid	Moisture	
460-299471-A-5 DU	Duplicate	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_N_6-8

Lab Sample ID: 460-299464-1

Date Collected: 03/06/24 08:00

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 16:56

Client Sample ID: W.UST.A_B_N_6-8

Lab Sample ID: 460-299464-1

Date Collected: 03/06/24 08:00

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			962978	MXW	EET EDI	03/07/24 18:01
Total/NA	Analysis	8260D		1	963053	AAT	EET EDI	03/08/24 08:30
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 14:31

Client Sample ID: W.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-2

Date Collected: 03/06/24 08:05

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 16:56

Client Sample ID: W.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-2

Date Collected: 03/06/24 08:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			962978	MXW	EET EDI	03/07/24 18:02
Total/NA	Analysis	8260D		1	963053	AAT	EET EDI	03/08/24 08:54
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 14:56

Client Sample ID: W.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-3

Date Collected: 03/06/24 08:10

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 16:56

Client Sample ID: W.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-3

Date Collected: 03/06/24 08:10

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			962978	MXW	EET EDI	03/07/24 18:03
Total/NA	Analysis	8260D		1	963053	AAT	EET EDI	03/08/24 09:19
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 15:20

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: W.UST.A_B_S_6-8

Lab Sample ID: 460-299464-4

Date Collected: 03/06/24 08:15

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 16:56

Client Sample ID: W.UST.A_B_S_6-8

Lab Sample ID: 460-299464-4

Date Collected: 03/06/24 08:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			962978	MXW	EET EDI	03/07/24 18:04
Total/NA	Analysis	8260D		1	963053	AAT	EET EDI	03/08/24 09:44
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 15:44

Client Sample ID: E.UST.A_B_N_6-8

Lab Sample ID: 460-299464-5

Date Collected: 03/06/24 08:20

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 16:56

Client Sample ID: E.UST.A_B_N_6-8

Lab Sample ID: 460-299464-5

Date Collected: 03/06/24 08:20

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			962978	MXW	EET EDI	03/07/24 18:05
Total/NA	Analysis	8260D		1	963053	AAT	EET EDI	03/08/24 10:10
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 16:07

Client Sample ID: E.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-6

Date Collected: 03/06/24 08:25

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 16:56

Client Sample ID: E.UST.A_B_C1_6-8

Lab Sample ID: 460-299464-6

Date Collected: 03/06/24 08:25

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			962978	MXW	EET EDI	03/07/24 18:06
Total/NA	Analysis	8260D		1	963053	AAT	EET EDI	03/08/24 10:34
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 16:31

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Client Sample ID: E.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-7

Date Collected: 03/06/24 08:30

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 16:56

Client Sample ID: E.UST.A_B_C2_6-8

Lab Sample ID: 460-299464-7

Date Collected: 03/06/24 08:30

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			962978	MXW	EET EDI	03/07/24 18:07
Total/NA	Analysis	8260D		1	963053	AAT	EET EDI	03/08/24 10:59
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 16:55

Client Sample ID: E.UST.A_B_S_6-8

Lab Sample ID: 460-299464-8

Date Collected: 03/06/24 08:35

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 16:56

Client Sample ID: E.UST.A_B_S_6-8

Lab Sample ID: 460-299464-8

Date Collected: 03/06/24 08:35

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			962978	MXW	EET EDI	03/07/24 18:08
Total/NA	Analysis	8260D		1	963053	AAT	EET EDI	03/08/24 11:24
Total/NA	Prep	3546			963010	GXY	EET EDI	03/07/24 19:31
Total/NA	Analysis	8270E		1	963065	DXD	EET EDI	03/08/24 13:46

Client Sample ID: FB_030624_UST

Lab Sample ID: 460-299464-9

Date Collected: 03/06/24 09:25

Matrix: Water

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			963415	OTS	EET EDI	03/11/24 10:45
Total/NA	Analysis	8270E		1	963550	MDJ	EET EDI	03/12/24 07:50

Client Sample ID: Trip Blank

Lab Sample ID: 460-299464-10

Date Collected: 03/06/24 00:00

Matrix: Water

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	963237	MZS	EET EDI	03/09/24 13:05

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-24

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

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Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI

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:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin Street

Job ID: 460-299464-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-299464-1	W.UST.A_B_N_6-8	Solid	03/06/24 08:00	03/06/24 19:00
460-299464-2	W.UST.A_B_C1_6-8	Solid	03/06/24 08:05	03/06/24 19:00
460-299464-3	W.UST.A_B_C2_6-8	Solid	03/06/24 08:10	03/06/24 19:00
460-299464-4	W.UST.A_B_S_6-8	Solid	03/06/24 08:15	03/06/24 19:00
460-299464-5	E.UST.A_B_N_6-8	Solid	03/06/24 08:20	03/06/24 19:00
460-299464-6	E.UST.A_B_C1_6-8	Solid	03/06/24 08:25	03/06/24 19:00
460-299464-7	E.UST.A_B_C2_6-8	Solid	03/06/24 08:30	03/06/24 19:00
460-299464-8	E.UST.A_B_S_6-8	Solid	03/06/24 08:35	03/06/24 19:00
460-299464-9	FB_030624_UST	Water	03/06/24 09:25	03/06/24 19:00
460-299464-10	Trip Blank	Water	03/06/24 00:00	03/06/24 19:00

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Address: 12 Franklin St
Brooklyn, NY

NYC
Chain of Custody Record
222

674025 eurofins

Environment Testing
America

TAL-8210

Regulatory Program DW NPDES RCRA Other

Company Name: Roux Inc
 Address: 209 N Shafter St
 City/State/Zip: Islip, NY 11749
 Phone: 631 232 4400
 Fax: _____
 Project Name: 12 Franklin St, Brooklyn NY
 Site: 12 Franklin St, Brooklyn NY
 PO #: 4170 0001 Y000

Client Contact
 Project Manager: Rachel Henke
 Tel/Email: 919 619 1503

Site Contact: Maxilyn K. Lee Date: 2/16/24
 Lab Contact: _____

Sampler: _____
 For Lab Use Only: _____
 Walk-in Client: _____
 Lab Sampling: _____
 Job / SDG No.: 299464

COC No.: _____ of _____ COCs

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
W.UST.A-B-N-6-8	3/1/24	0800	430	S	5	X	X	1
W.UST.A-B-C1-6-8		0805				X	X	2
W.UST.A-B-C2-6-8		0810				X	X	3
W.UST.A-B-S-6-8		0815				X	X	4
W.UST.A-B-N-6-8		0820				X	X	5
W.UST.A-B-C1-6-8		0825				X	X	6
W.UST.A-B-C2-6-8		0830				X	X	7
W.UST.A-B-S-6-8		0835				X	X	8
FB-030624-UST Trip Blank	3/16/24		FB Trip Blank W	W	24	X	X	9
			Trip Blank W	W	24	X	X	10

SHORT HOLD

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____

Possible Hazard Identification: _____

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Cooler Temp. (°C): _____ Obs'd: _____

Company: Roux Inc Date/Time: 03/06/23 13:48
 Received by: [Signature]
 Company: TA NYC
 Received by: [Signature] Date/Time: 3/20/2020
 Company: [Signature]
 Received in Laboratory by: [Signature] Date/Time: 3/17/24 19:00

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Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-299464-1

Login Number: 299464

List Number: 1

Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Rachel Henke
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Generated 3/12/2024 8:08:09 AM

JOB DESCRIPTION

12 Franklin St

JOB NUMBER

460-299465-1

Eurofins Edison

Job Notes

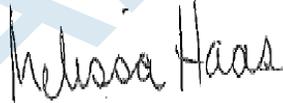
This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Compliance Statement

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.

Authorization



Generated
3/12/2024 8:08:09 AM

Authorized for release by
Melissa Haas, Senior Project Manager
Melissa.Haas@et.eurofinsus.com
(203)308-0880

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Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
*	Duplicate analysis not within control limits.

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: Roux Environmental Eng & Geology DPC
Project: 12 Franklin St

Job ID: 460-299465-1

Job ID: 460-299465-1

Eurofins Edison

Job Narrative 460-299465-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/6/2024 7:00 PM. 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 time was 2.6°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Method 8270E - Semivolatile Organic Compounds (GC/MS)

Samples RSB-11_0-2 (460-299465-1), RSB-12_0-2 (460-299465-2), RSB-10_0-2 (460-299465-3), RSB-6_0-2 (460-299465-4), RSB-6_0-2 (460-299465-4MS), RSB-6_0-2 (460-299465-4MSD), RSB-5_0-2 (460-299465-5), DUP_03062024 (460-299465-6), RSB-4_0-2 (460-299465-7), RSB-1_0-2 (460-299465-8), RSB-3_0-2 (460-299465-9), RSB-2_0-2 (460-299465-10), RSB-8_0-2 (460-299465-11), RSB-9_0-2 (460-299465-12) and RSB-7_0-2 (460-299465-13) were analyzed for Semivolatile Organic Compounds (GC/MS). The samples were prepared on 3/7/2024 and analyzed on 3/7/2024 and 3/8/2024.

Method 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Sample FB_03062024 (460-299465-14) was analyzed for Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution). The sample was prepared on 3/11/2024 and analyzed on 3/12/2024.

Method Moisture - Percent Moisture

Samples RSB-11_0-2 (460-299465-1), RSB-12_0-2 (460-299465-2), RSB-10_0-2 (460-299465-3), RSB-6_0-2 (460-299465-4), RSB-6_0-2 (460-299465-4MS), RSB-6_0-2 (460-299465-4MSD), RSB-5_0-2 (460-299465-5), DUP_03062024 (460-299465-6), RSB-4_0-2 (460-299465-7), RSB-1_0-2 (460-299465-8), RSB-3_0-2 (460-299465-9), RSB-2_0-2 (460-299465-10), RSB-8_0-2 (460-299465-11), RSB-9_0-2 (460-299465-12) and RSB-7_0-2 (460-299465-13) were analyzed for Percent Moisture. The samples were analyzed on 3/7/2024.

Eurofins Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-11_0-2	Lab Sample ID: 460-299465-1
No Detections.	
Client Sample ID: RSB-12_0-2	Lab Sample ID: 460-299465-2
No Detections.	
Client Sample ID: RSB-10_0-2	Lab Sample ID: 460-299465-3
No Detections.	
Client Sample ID: RSB-6_0-2	Lab Sample ID: 460-299465-4
No Detections.	
Client Sample ID: RSB-5_0-2	Lab Sample ID: 460-299465-5
No Detections.	
Client Sample ID: DUP_03062024	Lab Sample ID: 460-299465-6
No Detections.	
Client Sample ID: RSB-4_0-2	Lab Sample ID: 460-299465-7
No Detections.	
Client Sample ID: RSB-1_0-2	Lab Sample ID: 460-299465-8
No Detections.	
Client Sample ID: RSB-3_0-2	Lab Sample ID: 460-299465-9
No Detections.	
Client Sample ID: RSB-2_0-2	Lab Sample ID: 460-299465-10
No Detections.	
Client Sample ID: RSB-8_0-2	Lab Sample ID: 460-299465-11
No Detections.	
Client Sample ID: RSB-9_0-2	Lab Sample ID: 460-299465-12
No Detections.	
Client Sample ID: RSB-7_0-2	Lab Sample ID: 460-299465-13
No Detections.	
Client Sample ID: FB_03062024	Lab Sample ID: 460-299465-14
No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-11_0-2

Lab Sample ID: 460-299465-1

Date Collected: 03/06/24 08:45

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.037	U	0.037	0.032	mg/Kg	☼	03/07/24 19:32	03/08/24 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		24 - 137				03/07/24 19:32	03/08/24 09:42	1
2-Fluorobiphenyl	94		48 - 120				03/07/24 19:32	03/08/24 09:42	1
2-Fluorophenol (Surr)	93		31 - 120				03/07/24 19:32	03/08/24 09:42	1
Nitrobenzene-d5 (Surr)	86		38 - 120				03/07/24 19:32	03/08/24 09:42	1
Phenol-d5 (Surr)	95		39 - 120				03/07/24 19:32	03/08/24 09:42	1
Terphenyl-d14 (Surr)	103		25 - 126				03/07/24 19:32	03/08/24 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.1		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	89.9		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-12_0-2

Lab Sample ID: 460-299465-2

Date Collected: 03/06/24 09:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 82.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.040	U	0.040	0.035	mg/Kg	☼	03/07/24 19:32	03/08/24 10:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		24 - 137				03/07/24 19:32	03/08/24 10:06	1
2-Fluorobiphenyl	102		48 - 120				03/07/24 19:32	03/08/24 10:06	1
2-Fluorophenol (Surr)	92		31 - 120				03/07/24 19:32	03/08/24 10:06	1
Nitrobenzene-d5 (Surr)	92		38 - 120				03/07/24 19:32	03/08/24 10:06	1
Phenol-d5 (Surr)	99		39 - 120				03/07/24 19:32	03/08/24 10:06	1
Terphenyl-d14 (Surr)	106		25 - 126				03/07/24 19:32	03/08/24 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.0		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	82.0		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-10_0-2

Lab Sample ID: 460-299465-3

Date Collected: 03/06/24 09:20

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.038	U	0.038	0.033	mg/Kg	☼	03/07/24 19:32	03/08/24 10:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 137				03/07/24 19:32	03/08/24 10:29	1
2-Fluorobiphenyl	92		48 - 120				03/07/24 19:32	03/08/24 10:29	1
2-Fluorophenol (Surr)	82		31 - 120				03/07/24 19:32	03/08/24 10:29	1
Nitrobenzene-d5 (Surr)	82		38 - 120				03/07/24 19:32	03/08/24 10:29	1
Phenol-d5 (Surr)	90		39 - 120				03/07/24 19:32	03/08/24 10:29	1
Terphenyl-d14 (Surr)	102		25 - 126				03/07/24 19:32	03/08/24 10:29	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-10_0-2

Lab Sample ID: 460-299465-3

Date Collected: 03/06/24 09:20

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.5		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	86.5		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-6_0-2

Lab Sample ID: 460-299465-4

Date Collected: 03/06/24 10:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 81.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.040	U	0.040	0.035	mg/Kg	☼	03/07/24 19:32	03/08/24 08:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		24 - 137				03/07/24 19:32	03/08/24 08:31	1
2-Fluorobiphenyl	98		48 - 120				03/07/24 19:32	03/08/24 08:31	1
2-Fluorophenol (Surr)	92		31 - 120				03/07/24 19:32	03/08/24 08:31	1
Nitrobenzene-d5 (Surr)	88		38 - 120				03/07/24 19:32	03/08/24 08:31	1
Phenol-d5 (Surr)	98		39 - 120				03/07/24 19:32	03/08/24 08:31	1
Terphenyl-d14 (Surr)	107		25 - 126				03/07/24 19:32	03/08/24 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.4		1.0	1.0	%			03/07/24 17:04	1
Percent Solids (EPA Moisture)	81.6		1.0	1.0	%			03/07/24 17:04	1

Client Sample ID: RSB-5_0-2

Lab Sample ID: 460-299465-5

Date Collected: 03/06/24 10:10

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.038	U	0.038	0.033	mg/Kg	☼	03/07/24 19:32	03/08/24 10:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		24 - 137				03/07/24 19:32	03/08/24 10:53	1
2-Fluorobiphenyl	86		48 - 120				03/07/24 19:32	03/08/24 10:53	1
2-Fluorophenol (Surr)	80		31 - 120				03/07/24 19:32	03/08/24 10:53	1
Nitrobenzene-d5 (Surr)	78		38 - 120				03/07/24 19:32	03/08/24 10:53	1
Phenol-d5 (Surr)	86		39 - 120				03/07/24 19:32	03/08/24 10:53	1
Terphenyl-d14 (Surr)	98		25 - 126				03/07/24 19:32	03/08/24 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.9		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	86.1		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: DUP_03062024

Lab Sample ID: 460-299465-6

Date Collected: 03/06/24 10:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 85.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.039	U	0.039	0.034	mg/Kg	☼	03/07/24 19:32	03/08/24 11:17	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: DUP_03062024

Lab Sample ID: 460-299465-6

Date Collected: 03/06/24 10:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 85.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 137	03/07/24 19:32	03/08/24 11:17	1
2-Fluorobiphenyl	87		48 - 120	03/07/24 19:32	03/08/24 11:17	1
2-Fluorophenol (Surr)	82		31 - 120	03/07/24 19:32	03/08/24 11:17	1
Nitrobenzene-d5 (Surr)	76		38 - 120	03/07/24 19:32	03/08/24 11:17	1
Phenol-d5 (Surr)	88		39 - 120	03/07/24 19:32	03/08/24 11:17	1
Terphenyl-d14 (Surr)	98		25 - 126	03/07/24 19:32	03/08/24 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.5		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	85.5		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-4_0-2

Lab Sample ID: 460-299465-7

Date Collected: 03/06/24 10:20

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 83.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.039	U	0.039	0.034	mg/Kg	☼	03/07/24 19:32	03/08/24 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		24 - 137	03/07/24 19:32	03/08/24 11:42	1
2-Fluorobiphenyl	96		48 - 120	03/07/24 19:32	03/08/24 11:42	1
2-Fluorophenol (Surr)	91		31 - 120	03/07/24 19:32	03/08/24 11:42	1
Nitrobenzene-d5 (Surr)	90		38 - 120	03/07/24 19:32	03/08/24 11:42	1
Phenol-d5 (Surr)	96		39 - 120	03/07/24 19:32	03/08/24 11:42	1
Terphenyl-d14 (Surr)	103		25 - 126	03/07/24 19:32	03/08/24 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.5		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	83.5		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-1_0-2

Lab Sample ID: 460-299465-8

Date Collected: 03/06/24 10:45

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.038	U	0.038	0.033	mg/Kg	☼	03/07/24 19:32	03/08/24 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 137	03/07/24 19:32	03/08/24 12:06	1
2-Fluorobiphenyl	92		48 - 120	03/07/24 19:32	03/08/24 12:06	1
2-Fluorophenol (Surr)	89		31 - 120	03/07/24 19:32	03/08/24 12:06	1
Nitrobenzene-d5 (Surr)	85		38 - 120	03/07/24 19:32	03/08/24 12:06	1
Phenol-d5 (Surr)	93		39 - 120	03/07/24 19:32	03/08/24 12:06	1
Terphenyl-d14 (Surr)	98		25 - 126	03/07/24 19:32	03/08/24 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.2		1.0	1.0	%			03/07/24 17:00	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-1_0-2

Lab Sample ID: 460-299465-8

Date Collected: 03/06/24 10:45

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.8

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	86.8		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-3_0-2

Lab Sample ID: 460-299465-9

Date Collected: 03/06/24 10:50

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 81.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.041	U	0.041	0.036	mg/Kg	☼	03/07/24 19:32	03/08/24 12:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		24 - 137				03/07/24 19:32	03/08/24 12:31	1
2-Fluorobiphenyl	100		48 - 120				03/07/24 19:32	03/08/24 12:31	1
2-Fluorophenol (Surr)	95		31 - 120				03/07/24 19:32	03/08/24 12:31	1
Nitrobenzene-d5 (Surr)	91		38 - 120				03/07/24 19:32	03/08/24 12:31	1
Phenol-d5 (Surr)	101		39 - 120				03/07/24 19:32	03/08/24 12:31	1
Terphenyl-d14 (Surr)	103		25 - 126				03/07/24 19:32	03/08/24 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.0		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	81.0		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-2_0-2

Lab Sample ID: 460-299465-10

Date Collected: 03/06/24 10:55

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 83.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.040	U	0.040	0.035	mg/Kg	☼	03/07/24 19:32	03/08/24 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 137				03/07/24 19:32	03/08/24 12:55	1
2-Fluorobiphenyl	93		48 - 120				03/07/24 19:32	03/08/24 12:55	1
2-Fluorophenol (Surr)	90		31 - 120				03/07/24 19:32	03/08/24 12:55	1
Nitrobenzene-d5 (Surr)	85		38 - 120				03/07/24 19:32	03/08/24 12:55	1
Phenol-d5 (Surr)	96		39 - 120				03/07/24 19:32	03/08/24 12:55	1
Terphenyl-d14 (Surr)	97		25 - 126				03/07/24 19:32	03/08/24 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.7		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	83.3		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-8_0-2

Lab Sample ID: 460-299465-11

Date Collected: 03/06/24 11:50

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 88.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.037	U	0.037	0.032	mg/Kg	☼	03/07/24 19:32	03/08/24 13:18	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-8_0-2

Lab Sample ID: 460-299465-11

Date Collected: 03/06/24 11:50

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 88.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		24 - 137	03/07/24 19:32	03/08/24 13:18	1
2-Fluorobiphenyl	95		48 - 120	03/07/24 19:32	03/08/24 13:18	1
2-Fluorophenol (Surr)	90		31 - 120	03/07/24 19:32	03/08/24 13:18	1
Nitrobenzene-d5 (Surr)	87		38 - 120	03/07/24 19:32	03/08/24 13:18	1
Phenol-d5 (Surr)	97		39 - 120	03/07/24 19:32	03/08/24 13:18	1
Terphenyl-d14 (Surr)	102		25 - 126	03/07/24 19:32	03/08/24 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	88.7		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-9_0-2

Lab Sample ID: 460-299465-12

Date Collected: 03/06/24 12:00

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.037	U	0.037	0.032	mg/Kg	☼	03/07/24 19:32	03/08/24 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		24 - 137	03/07/24 19:32	03/08/24 13:42	1
2-Fluorobiphenyl	87		48 - 120	03/07/24 19:32	03/08/24 13:42	1
2-Fluorophenol (Surr)	85		31 - 120	03/07/24 19:32	03/08/24 13:42	1
Nitrobenzene-d5 (Surr)	82		38 - 120	03/07/24 19:32	03/08/24 13:42	1
Phenol-d5 (Surr)	90		39 - 120	03/07/24 19:32	03/08/24 13:42	1
Terphenyl-d14 (Surr)	98		25 - 126	03/07/24 19:32	03/08/24 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.4		1.0	1.0	%			03/07/24 17:00	1
Percent Solids (EPA Moisture)	89.6		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: RSB-7_0-2

Lab Sample ID: 460-299465-13

Date Collected: 03/06/24 12:10

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.037	U	0.037	0.032	mg/Kg	☼	03/07/24 19:32	03/08/24 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		24 - 137	03/07/24 19:32	03/08/24 14:07	1
2-Fluorobiphenyl	93		48 - 120	03/07/24 19:32	03/08/24 14:07	1
2-Fluorophenol (Surr)	88		31 - 120	03/07/24 19:32	03/08/24 14:07	1
Nitrobenzene-d5 (Surr)	86		38 - 120	03/07/24 19:32	03/08/24 14:07	1
Phenol-d5 (Surr)	96		39 - 120	03/07/24 19:32	03/08/24 14:07	1
Terphenyl-d14 (Surr)	100		25 - 126	03/07/24 19:32	03/08/24 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.9		1.0	1.0	%			03/07/24 17:00	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-7_0-2

Lab Sample ID: 460-299465-13

Date Collected: 03/06/24 12:10

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.1

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	89.1		1.0	1.0	%			03/07/24 17:00	1

Client Sample ID: FB_03062024

Lab Sample ID: 460-299465-14

Date Collected: 03/06/24 12:30

Matrix: Water

Date Received: 03/06/24 19:00

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.072	ug/L		03/11/24 20:43	03/12/24 07:36	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,4-Dioxane-d8	34		10 - 150				03/11/24 20:43	03/12/24 07:36	1

DRAFT

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Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-137)	FBP (48-120)	2FP (31-120)	NBZ (38-120)	PHL (39-120)	TPHL (25-126)
460-299465-1	RSB-11_0-2	91	94	93	86	95	103
460-299465-2	RSB-12_0-2	96	102	92	92	99	106
460-299465-3	RSB-10_0-2	90	92	82	82	90	102
460-299465-4	RSB-6_0-2	93	98	92	88	98	107
460-299465-4 MS	RSB-6_0-2	88	92	82	82	87	97
460-299465-4 MSD	RSB-6_0-2	93	89	75	78	86	103
460-299465-5	RSB-5_0-2	89	86	80	78	86	98
460-299465-6	DUP_03062024	90	87	82	76	88	98
460-299465-7	RSB-4_0-2	93	96	91	90	96	103
460-299465-8	RSB-1_0-2	90	92	89	85	93	98
460-299465-9	RSB-3_0-2	95	100	95	91	101	103
460-299465-10	RSB-2_0-2	90	93	90	85	96	97
460-299465-11	RSB-8_0-2	95	95	90	87	97	102
460-299465-12	RSB-9_0-2	86	87	85	82	90	98
460-299465-13	RSB-7_0-2	88	93	88	86	96	100
LCS 460-963011/2-A	Lab Control Sample	101	95	86	90	101	105
LCSD 460-963011/3-A	Lab Control Sample Dup	103	103	99	98	105	107
MB 460-963011/1-A	Method Blank	105	98	86	92	93	111

Surrogate Legend

- TBP = 2,4,6-Tribromophenol (Surr)
- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol (Surr)
- NBZ = Nitrobenzene-d5 (Surr)
- PHL = Phenol-d5 (Surr)
- TPHL = Terphenyl-d14 (Surr)

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Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (10-150)
460-299465-14	FB_03062024	34
LCS 460-963516/2-A	Lab Control Sample	38
LCSD 460-963516/3-A	Lab Control Sample Dup	32
MB 460-963516/1-A	Method Blank	37

Surrogate Legend

DXE = 1,4-Dioxane-d8

DRAFT

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

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

Lab Sample ID: MB 460-963011/1-A
Matrix: Solid
Analysis Batch: 963068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 963011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.033	U	0.033	0.029	mg/Kg		03/07/24 19:32	03/08/24 07:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		24 - 137				03/07/24 19:32	03/08/24 07:18	1
2-Fluorobiphenyl	98		48 - 120				03/07/24 19:32	03/08/24 07:18	1
2-Fluorophenol (Surr)	86		31 - 120				03/07/24 19:32	03/08/24 07:18	1
Nitrobenzene-d5 (Surr)	92		38 - 120				03/07/24 19:32	03/08/24 07:18	1
Phenol-d5 (Surr)	93		39 - 120				03/07/24 19:32	03/08/24 07:18	1
Terphenyl-d14 (Surr)	111		25 - 126				03/07/24 19:32	03/08/24 07:18	1

Lab Sample ID: LCS 460-963011/2-A
Matrix: Solid
Analysis Batch: 963068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 963011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	3.33	2.19		mg/Kg		66	30 - 120
Surrogate	%Recovery	Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	101		24 - 137				
2-Fluorobiphenyl	95		48 - 120				
2-Fluorophenol (Surr)	86		31 - 120				
Nitrobenzene-d5 (Surr)	90		38 - 120				
Phenol-d5 (Surr)	101		39 - 120				
Terphenyl-d14 (Surr)	105		25 - 126				

Lab Sample ID: LCSD 460-963011/3-A
Matrix: Solid
Analysis Batch: 963068

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 963011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	3.33	2.54		mg/Kg		76	30 - 120	15	30
Surrogate	%Recovery	Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	103		24 - 137						
2-Fluorobiphenyl	103		48 - 120						
2-Fluorophenol (Surr)	99		31 - 120						
Nitrobenzene-d5 (Surr)	98		38 - 120						
Phenol-d5 (Surr)	105		39 - 120						
Terphenyl-d14 (Surr)	107		25 - 126						

Lab Sample ID: 460-299465-4 MS
Matrix: Solid
Analysis Batch: 963068

Client Sample ID: RSB-6_0-2
Prep Type: Total/NA
Prep Batch: 963011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	0.040	U	4.08	1.96		mg/Kg	✱	48	30 - 120

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

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

Lab Sample ID: 460-299465-4 MS
Matrix: Solid
Analysis Batch: 963068

Client Sample ID: RSB-6_0-2
Prep Type: Total/NA
Prep Batch: 963011

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	88		24 - 137
2-Fluorobiphenyl	92		48 - 120
2-Fluorophenol (Surr)	82		31 - 120
Nitrobenzene-d5 (Surr)	82		38 - 120
Phenol-d5 (Surr)	87		39 - 120
Terphenyl-d14 (Surr)	97		25 - 126

Lab Sample ID: 460-299465-4 MSD
Matrix: Solid
Analysis Batch: 963068

Client Sample ID: RSB-6_0-2
Prep Type: Total/NA
Prep Batch: 963011

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,4-Dioxane	0.040	U	4.08	1.52		mg/Kg	☼	37	30 - 120	25	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	93		24 - 137
2-Fluorobiphenyl	89		48 - 120
2-Fluorophenol (Surr)	75		31 - 120
Nitrobenzene-d5 (Surr)	78		38 - 120
Phenol-d5 (Surr)	86		39 - 120
Terphenyl-d14 (Surr)	103		25 - 126

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 460-963516/1-A
Matrix: Water
Analysis Batch: 963556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 963516

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	0.20	U	0.20	0.072	ug/L		03/11/24 20:43	03/12/24 06:34	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,4-Dioxane-d8	37		10 - 150	03/11/24 20:43	03/12/24 06:34	1

Lab Sample ID: LCS 460-963516/2-A
Matrix: Water
Analysis Batch: 963556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 963516

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
1,4-Dioxane	1.60	1.36		ug/L		85	50 - 142

Isotope Dilution	LCS	LCS	Limits
	%Recovery	Qualifier	
1,4-Dioxane-d8	38		10 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCSD 460-963516/3-A
Matrix: Water
Analysis Batch: 963556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 963516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	1.60	1.19		ug/L		74	50 - 142	13	20
<i>Isotope Dilution</i>									
	<i>%Recovery</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Qualifier</i>			<i>Limits</i>		
1,4-Dioxane-d8	32						10 - 150		

Method: Moisture - Percent Moisture

Lab Sample ID: 460-299388-A-4 DU
Matrix: Solid
Analysis Batch: 962969

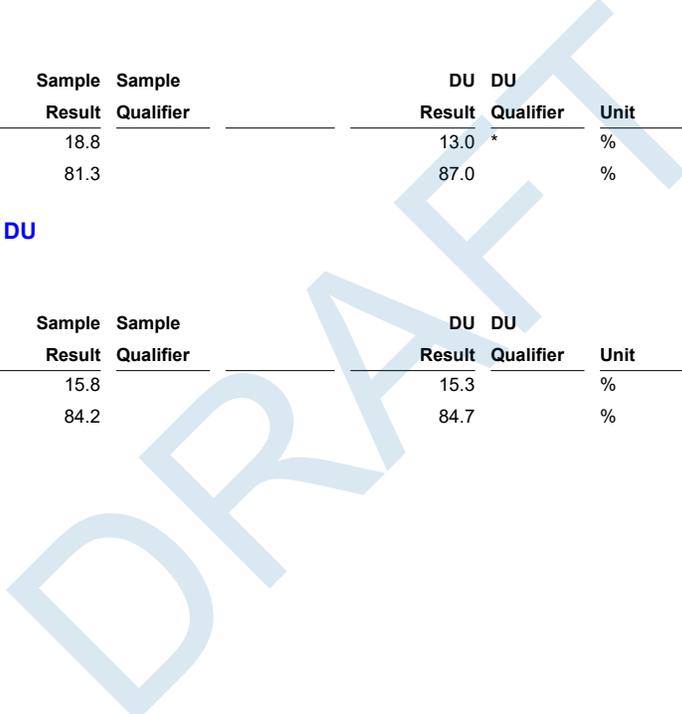
Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	18.8		13.0	*	%		37	20
Percent Solids	81.3		87.0		%		7	20

Lab Sample ID: 460-299462-A-11 DU
Matrix: Solid
Analysis Batch: 962969

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.8		15.3		%		3	20
Percent Solids	84.2		84.7		%		0.6	20



QC Association Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

GC/MS Semi VOA

Prep Batch: 963011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299465-1	RSB-11_0-2	Total/NA	Solid	3546	
460-299465-2	RSB-12_0-2	Total/NA	Solid	3546	
460-299465-3	RSB-10_0-2	Total/NA	Solid	3546	
460-299465-4	RSB-6_0-2	Total/NA	Solid	3546	
460-299465-5	RSB-5_0-2	Total/NA	Solid	3546	
460-299465-6	DUP_03062024	Total/NA	Solid	3546	
460-299465-7	RSB-4_0-2	Total/NA	Solid	3546	
460-299465-8	RSB-1_0-2	Total/NA	Solid	3546	
460-299465-9	RSB-3_0-2	Total/NA	Solid	3546	
460-299465-10	RSB-2_0-2	Total/NA	Solid	3546	
460-299465-11	RSB-8_0-2	Total/NA	Solid	3546	
460-299465-12	RSB-9_0-2	Total/NA	Solid	3546	
460-299465-13	RSB-7_0-2	Total/NA	Solid	3546	
MB 460-963011/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-963011/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-963011/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-299465-4 MS	RSB-6_0-2	Total/NA	Solid	3546	
460-299465-4 MSD	RSB-6_0-2	Total/NA	Solid	3546	

Analysis Batch: 963068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299465-1	RSB-11_0-2	Total/NA	Solid	8270E	963011
460-299465-2	RSB-12_0-2	Total/NA	Solid	8270E	963011
460-299465-3	RSB-10_0-2	Total/NA	Solid	8270E	963011
460-299465-4	RSB-6_0-2	Total/NA	Solid	8270E	963011
460-299465-5	RSB-5_0-2	Total/NA	Solid	8270E	963011
460-299465-6	DUP_03062024	Total/NA	Solid	8270E	963011
460-299465-7	RSB-4_0-2	Total/NA	Solid	8270E	963011
460-299465-8	RSB-1_0-2	Total/NA	Solid	8270E	963011
460-299465-9	RSB-3_0-2	Total/NA	Solid	8270E	963011
460-299465-10	RSB-2_0-2	Total/NA	Solid	8270E	963011
460-299465-11	RSB-8_0-2	Total/NA	Solid	8270E	963011
460-299465-12	RSB-9_0-2	Total/NA	Solid	8270E	963011
460-299465-13	RSB-7_0-2	Total/NA	Solid	8270E	963011
MB 460-963011/1-A	Method Blank	Total/NA	Solid	8270E	963011
LCS 460-963011/2-A	Lab Control Sample	Total/NA	Solid	8270E	963011
LCSD 460-963011/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	963011
460-299465-4 MS	RSB-6_0-2	Total/NA	Solid	8270E	963011
460-299465-4 MSD	RSB-6_0-2	Total/NA	Solid	8270E	963011

Prep Batch: 963516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299465-14	FB_03062024	Total/NA	Water	3510C	
MB 460-963516/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-963516/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-963516/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 963556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299465-14	FB_03062024	Total/NA	Water	8270E SIM ID	963516
MB 460-963516/1-A	Method Blank	Total/NA	Water	8270E SIM ID	963516

Eurofins Edison

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

GC/MS Semi VOA (Continued)

Analysis Batch: 963556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-963516/2-A	Lab Control Sample	Total/NA	Water	8270E SIM ID	963516
LCSD 460-963516/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM ID	963516

General Chemistry

Analysis Batch: 962969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299465-1	RSB-11_0-2	Total/NA	Solid	Moisture	
460-299465-2	RSB-12_0-2	Total/NA	Solid	Moisture	
460-299465-3	RSB-10_0-2	Total/NA	Solid	Moisture	
460-299465-4	RSB-6_0-2	Total/NA	Solid	Moisture	
460-299465-5	RSB-5_0-2	Total/NA	Solid	Moisture	
460-299465-6	DUP_03062024	Total/NA	Solid	Moisture	
460-299465-7	RSB-4_0-2	Total/NA	Solid	Moisture	
460-299465-8	RSB-1_0-2	Total/NA	Solid	Moisture	
460-299465-9	RSB-3_0-2	Total/NA	Solid	Moisture	
460-299465-10	RSB-2_0-2	Total/NA	Solid	Moisture	
460-299465-11	RSB-8_0-2	Total/NA	Solid	Moisture	
460-299465-12	RSB-9_0-2	Total/NA	Solid	Moisture	
460-299465-13	RSB-7_0-2	Total/NA	Solid	Moisture	
460-299465-4 MS	RSB-6_0-2	Total/NA	Solid	Moisture	
460-299465-4 MSD	RSB-6_0-2	Total/NA	Solid	Moisture	
460-299388-A-4 DU	Duplicate	Total/NA	Solid	Moisture	
460-299462-A-11 DU	Duplicate	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-11_0-2

Lab Sample ID: 460-299465-1

Date Collected: 03/06/24 08:45

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Client Sample ID: RSB-11_0-2

Lab Sample ID: 460-299465-1

Date Collected: 03/06/24 08:45

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 09:42

Client Sample ID: RSB-12_0-2

Lab Sample ID: 460-299465-2

Date Collected: 03/06/24 09:05

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Client Sample ID: RSB-12_0-2

Lab Sample ID: 460-299465-2

Date Collected: 03/06/24 09:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 10:06

Client Sample ID: RSB-10_0-2

Lab Sample ID: 460-299465-3

Date Collected: 03/06/24 09:20

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Client Sample ID: RSB-10_0-2

Lab Sample ID: 460-299465-3

Date Collected: 03/06/24 09:20

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 10:29

Client Sample ID: RSB-6_0-2

Lab Sample ID: 460-299465-4

Date Collected: 03/06/24 10:05

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:04

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-6_0-2

Lab Sample ID: 460-299465-4

Date Collected: 03/06/24 10:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 08:31

Client Sample ID: RSB-5_0-2

Lab Sample ID: 460-299465-5

Date Collected: 03/06/24 10:10

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Client Sample ID: RSB-5_0-2

Lab Sample ID: 460-299465-5

Date Collected: 03/06/24 10:10

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 10:53

Client Sample ID: DUP_03062024

Lab Sample ID: 460-299465-6

Date Collected: 03/06/24 10:15

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Client Sample ID: DUP_03062024

Lab Sample ID: 460-299465-6

Date Collected: 03/06/24 10:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 11:17

Client Sample ID: RSB-4_0-2

Lab Sample ID: 460-299465-7

Date Collected: 03/06/24 10:20

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-4_0-2

Lab Sample ID: 460-299465-7

Date Collected: 03/06/24 10:20

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 11:42

Client Sample ID: RSB-1_0-2

Lab Sample ID: 460-299465-8

Date Collected: 03/06/24 10:45

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Client Sample ID: RSB-1_0-2

Lab Sample ID: 460-299465-8

Date Collected: 03/06/24 10:45

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 12:06

Client Sample ID: RSB-3_0-2

Lab Sample ID: 460-299465-9

Date Collected: 03/06/24 10:50

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Client Sample ID: RSB-3_0-2

Lab Sample ID: 460-299465-9

Date Collected: 03/06/24 10:50

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 12:31

Client Sample ID: RSB-2_0-2

Lab Sample ID: 460-299465-10

Date Collected: 03/06/24 10:55

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-2_0-2

Lab Sample ID: 460-299465-10

Date Collected: 03/06/24 10:55

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 12:55

Client Sample ID: RSB-8_0-2

Lab Sample ID: 460-299465-11

Date Collected: 03/06/24 11:50

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Client Sample ID: RSB-8_0-2

Lab Sample ID: 460-299465-11

Date Collected: 03/06/24 11:50

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 13:18

Client Sample ID: RSB-9_0-2

Lab Sample ID: 460-299465-12

Date Collected: 03/06/24 12:00

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Client Sample ID: RSB-9_0-2

Lab Sample ID: 460-299465-12

Date Collected: 03/06/24 12:00

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 13:42

Client Sample ID: RSB-7_0-2

Lab Sample ID: 460-299465-13

Date Collected: 03/06/24 12:10

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	962969	CJC	EET EDI	03/07/24 17:00

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299465-1

Client Sample ID: RSB-7_0-2

Lab Sample ID: 460-299465-13

Date Collected: 03/06/24 12:10

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			963011	GXY	EET EDI	03/07/24 19:32
Total/NA	Analysis	8270E		1	963068	DXD	EET EDI	03/08/24 14:07

Client Sample ID: FB_03062024

Lab Sample ID: 460-299465-14

Date Collected: 03/06/24 12:30

Matrix: Water

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			963516	JMS	EET EDI	03/11/24 20:43
Total/NA	Analysis	8270E SIM ID		1	963556	MDJ	EET EDI	03/12/24 07:36

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-24

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

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Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Method	Method Description	Protocol	Laboratory
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8270E SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI

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:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299465-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-299465-1	RSB-11_0-2	Solid	03/06/24 08:45	03/06/24 19:00
460-299465-2	RSB-12_0-2	Solid	03/06/24 09:05	03/06/24 19:00
460-299465-3	RSB-10_0-2	Solid	03/06/24 09:20	03/06/24 19:00
460-299465-4	RSB-6_0-2	Solid	03/06/24 10:05	03/06/24 19:00
460-299465-5	RSB-5_0-2	Solid	03/06/24 10:10	03/06/24 19:00
460-299465-6	DUP_03062024	Solid	03/06/24 10:15	03/06/24 19:00
460-299465-7	RSB-4_0-2	Solid	03/06/24 10:20	03/06/24 19:00
460-299465-8	RSB-1_0-2	Solid	03/06/24 10:45	03/06/24 19:00
460-299465-9	RSB-3_0-2	Solid	03/06/24 10:50	03/06/24 19:00
460-299465-10	RSB-2_0-2	Solid	03/06/24 10:55	03/06/24 19:00
460-299465-11	RSB-8_0-2	Solid	03/06/24 11:50	03/06/24 19:00
460-299465-12	RSB-9_0-2	Solid	03/06/24 12:00	03/06/24 19:00
460-299465-13	RSB-7_0-2	Solid	03/06/24 12:10	03/06/24 19:00
460-299465-14	FB_03062024	Water	03/06/24 12:30	03/06/24 19:00

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Address: 12 Franklin St

Chain of Custody Record

674046



Environment Test America

NYC

TAL-82

Regulatory Program 228

Project Manager PAUL WILKINS

Tel/Email: THOMAS.KOVACIK@C.COM

Client Contact

Company Name: POW X

Address: 204 Shaffer St

City/State/Zip: Brooklyn, NY 11249

Phone: 631-232-2600

Fax:

Project Name: 12 Franklin St

Site: 4170.0001000

P.O.#

Company Name: POW X

Address: 204 Shaffer St

City/State/Zip: Brooklyn, NY 11249

Phone: 631-232-2600

Fax:

Project Name: 12 Franklin St

Site: 4170.0001000

P.O.#

Company Name: POW X

Address: 204 Shaffer St

City/State/Zip: Brooklyn, NY 11249

Phone: 631-232-2600

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Project Name: 12 Franklin St

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City/State/Zip: Brooklyn, NY 11249

Phone: 631-232-2600

Fax:

Project Name: 12 Franklin St

Site: 4170.0001000

P.O.#

Site Contact: Paul Wilkins

Lab Contact:

Analysis Turnaround Time

Sample Date

Sample Time

Sample Type

Matrix

of Cont.

Sample Specific Notes:

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

Sample ID: RSB-10-0-2

Sample ID: RSB-6-0-2

Sample ID: RSB-5-0-2

Sample ID: DUP-03062024

Sample ID: RSB-4-0-2

Sample ID: RSB-1-0-2

Sample ID: RSB-3-0-2

Sample ID: RSB-2-0-2

Sample ID: RSB-8-0-2

Sample ID: RSB-9-0-2

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

Sample ID: RSB-13-0-2

Sample ID: RSB-14-0-2

Sample ID: RSB-15-0-2

Sample ID: RSB-16-0-2

Sample ID: RSB-17-0-2

Sample ID: RSB-18-0-2

Sample ID: RSB-19-0-2

Sample ID: RSB-20-0-2

Sample ID: RSB-21-0-2

Sample ID: RSB-22-0-2

Sample ID: RSB-23-0-2

Sample ID: RSB-24-0-2

Sample ID: RSB-25-0-2

Sample ID: RSB-26-0-2

Sample ID: RSB-27-0-2

Sample ID: RSB-28-0-2

Sample ID: RSB-29-0-2

Sample ID: RSB-30-0-2

Sample ID: RSB-31-0-2

Sample ID: RSB-32-0-2

Sample ID: RSB-33-0-2

Site Contact: Paul Wilkins

Lab Contact:

Analysis Turnaround Time

Sample Date

Sample Time

Sample Type

Matrix

of Cont.

Sample Specific Notes:

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

Sample ID: RSB-10-0-2

Sample ID: RSB-6-0-2

Sample ID: RSB-5-0-2

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Sample ID: RSB-8-0-2

Sample ID: RSB-9-0-2

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

Sample ID: RSB-13-0-2

Sample ID: RSB-14-0-2

Sample ID: RSB-15-0-2

Sample ID: RSB-16-0-2

Sample ID: RSB-17-0-2

Sample ID: RSB-18-0-2

Sample ID: RSB-19-0-2

Sample ID: RSB-20-0-2

Sample ID: RSB-21-0-2

Sample ID: RSB-22-0-2

Sample ID: RSB-23-0-2

Sample ID: RSB-24-0-2

Sample ID: RSB-25-0-2

Sample ID: RSB-26-0-2

Sample ID: RSB-27-0-2

Sample ID: RSB-28-0-2

Sample ID: RSB-29-0-2

Sample ID: RSB-30-0-2

Sample ID: RSB-31-0-2

Sample ID: RSB-32-0-2

Sample ID: RSB-33-0-2

Site Contact: Paul Wilkins

Lab Contact:

Analysis Turnaround Time

Sample Date

Sample Time

Sample Type

Matrix

of Cont.

Sample Specific Notes:

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

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Sample ID: RSB-6-0-2

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Sample ID: RSB-8-0-2

Sample ID: RSB-9-0-2

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

Sample ID: RSB-13-0-2

Sample ID: RSB-14-0-2

Sample ID: RSB-15-0-2

Sample ID: RSB-16-0-2

Sample ID: RSB-17-0-2

Sample ID: RSB-18-0-2

Sample ID: RSB-19-0-2

Sample ID: RSB-20-0-2

Sample ID: RSB-21-0-2

Sample ID: RSB-22-0-2

Sample ID: RSB-23-0-2

Sample ID: RSB-24-0-2

Sample ID: RSB-25-0-2

Sample ID: RSB-26-0-2

Sample ID: RSB-27-0-2

Sample ID: RSB-28-0-2

Sample ID: RSB-29-0-2

Sample ID: RSB-30-0-2

Sample ID: RSB-31-0-2

Sample ID: RSB-32-0-2

Sample ID: RSB-33-0-2

Site Contact: Paul Wilkins

Lab Contact:

Analysis Turnaround Time

Sample Date

Sample Time

Sample Type

Matrix

of Cont.

Sample Specific Notes:

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

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Sample ID: RSB-8-0-2

Sample ID: RSB-9-0-2

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

Sample ID: RSB-13-0-2

Sample ID: RSB-14-0-2

Sample ID: RSB-15-0-2

Sample ID: RSB-16-0-2

Sample ID: RSB-17-0-2

Sample ID: RSB-18-0-2

Sample ID: RSB-19-0-2

Sample ID: RSB-20-0-2

Sample ID: RSB-21-0-2

Sample ID: RSB-22-0-2

Sample ID: RSB-23-0-2

Sample ID: RSB-24-0-2

Sample ID: RSB-25-0-2

Sample ID: RSB-26-0-2

Sample ID: RSB-27-0-2

Sample ID: RSB-28-0-2

Sample ID: RSB-29-0-2

Sample ID: RSB-30-0-2

Sample ID: RSB-31-0-2

Sample ID: RSB-32-0-2

Sample ID: RSB-33-0-2

Site Contact: Paul Wilkins

Lab Contact:

Analysis Turnaround Time

Sample Date

Sample Time

Sample Type

Matrix

of Cont.

Sample Specific Notes:

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

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Sample ID: RSB-2-0-2

Sample ID: RSB-8-0-2

Sample ID: RSB-9-0-2

Sample ID: RSB-11-0-2

Sample ID: RSB-12-0-2

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-299465-1

Login Number: 299465

List Number: 1

Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Rachel Henke
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Generated 3/14/2024 3:48:31 PM

JOB DESCRIPTION

12 Franklin St

JOB NUMBER

460-299487-1

Eurofins Edison

Job Notes

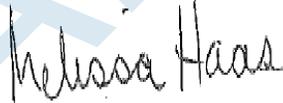
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Compliance Statement

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.

Authorization



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3/14/2024 3:48:31 PM

Authorized for release by
Melissa Haas, Senior Project Manager
Melissa.Haas@et.eurofinsus.com
(203)308-0880



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DRAFT

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299487-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

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: Roux Environmental Eng & Geology DPC
Project: 12 Franklin St

Job ID: 460-299487-1

Job ID: 460-299487-1

Eurofins Edison

Job Narrative 460-299487-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/6/2024 7:00 PM. 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 time was 3.0°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Method 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Samples RSB-11_0-2_P (460-299487-1), RSB-12_0-2_P (460-299487-2), RSB-10_0-2_P (460-299487-3), RSB-8_0-2_P (460-299487-4), RSB-9_0-2_P (460-299487-5) and RSB-7_0-2_P (460-299487-6) were analyzed for Per- and Polyfluoroalkyl Substances by LC/MS/MS. The samples were prepared on 3/11/2024 and analyzed on 3/12/2024.

Method Moisture - Percent Moisture

Samples RSB-11_0-2_P (460-299487-1), RSB-12_0-2_P (460-299487-2), RSB-10_0-2_P (460-299487-3), RSB-8_0-2_P (460-299487-4), RSB-9_0-2_P (460-299487-5) and RSB-7_0-2_P (460-299487-6) were analyzed for Percent Moisture. The samples were analyzed on 3/12/2024 and 3/13/2024.

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Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-11_0-2_P

Lab Sample ID: 460-299487-1

No Detections.

Client Sample ID: RSB-12_0-2_P

Lab Sample ID: 460-299487-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.061	J	0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.55		0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.28		0.19	0.048	ug/Kg	1	✳	1633	Total/NA

Client Sample ID: RSB-10_0-2_P

Lab Sample ID: 460-299487-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.091	J	0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.76		0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.79		0.19	0.048	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.098	J	0.19	0.048	ug/Kg	1	✳	1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	1.33		0.19	0.048	ug/Kg	1	✳	1633	Total/NA

Client Sample ID: RSB-8_0-2_P

Lab Sample ID: 460-299487-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.096	J	0.19	0.046	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.24		0.19	0.046	ug/Kg	1	✳	1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.069	J	0.19	0.046	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.88		0.19	0.046	ug/Kg	1	✳	1633	Total/NA

Client Sample ID: RSB-9_0-2_P

Lab Sample ID: 460-299487-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.052	J	0.18	0.044	ug/Kg	1	✳	1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.10	J	0.18	0.044	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.31		0.18	0.044	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.18	0.044	ug/Kg	1	✳	1633	Total/NA

Client Sample ID: RSB-7_0-2_P

Lab Sample ID: 460-299487-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.10	J	0.18	0.045	ug/Kg	1	✳	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.34		0.18	0.045	ug/Kg	1	✳	1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-11_0-2_P

Lab Sample ID: 460-299487-1

Date Collected: 03/06/24 08:40

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 76.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.83	U	0.83	0.21	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluoropentanoic acid (PFPeA)	0.42	U	0.42	0.10	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorotridecanoic acid (PFTriDA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorotetradecanoic acid (PFTeDA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluoropentanesulfonic acid (PFPeS)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluoroheptanesulfonic acid (PFHpS)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorooctanesulfonic acid (PFOS)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluoronanesulfonic acid (PFNS)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorododecanesulfonic acid (PFDoS)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.83	U	0.83	0.21	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.83	U	0.83	0.21	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.83	U	0.83	0.21	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluorooctanesulfonamide (PFOSA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.21	U	0.21	0.052	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.08	U	2.08	0.52	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.08	U	2.08	0.52	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.83	U	0.83	0.21	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.83	U	0.83	0.21	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.42	U	0.42	0.10	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.42	U	0.42	0.10	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.83	U	0.83	0.21	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.83	U	0.83	0.21	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.42	U	0.42	0.10	ug/Kg	✳	03/11/24 10:14	03/12/24 01:11	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-11_0-2_P

Lab Sample ID: 460-299487-1

Date Collected: 03/06/24 08:40

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 76.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.04	U	1.04	0.26	ug/Kg	☼	03/11/24 10:14	03/12/24 01:11	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.21	U	5.21	1.30	ug/Kg	☼	03/11/24 10:14	03/12/24 01:11	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.21	U	5.21	1.30	ug/Kg	☼	03/11/24 10:14	03/12/24 01:11	1
Perfluorodecanesulfonic acid (PFDS)	0.21	U	0.21	0.052	ug/Kg	☼	03/11/24 10:14	03/12/24 01:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.42	U	0.42	0.10	ug/Kg	☼	03/11/24 10:14	03/12/24 01:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91.9		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C5 PFPeA	114		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C5 PFHxA	97.6		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C4 PFHpA	112		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C8 PFOA	99.1		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C9 PFNA	86.4		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C6 PFDA	87.2		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C7 PFUnA	86.9		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C2 PFTeDA	71.8		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C3 PFBS	96.9		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C3 PFHxS	98.0		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C8 PFOS	104		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C8 FOSA	92.8		20 - 150	03/11/24 10:14	03/12/24 01:11	1
d3-NMeFOSAA	88.8		20 - 150	03/11/24 10:14	03/12/24 01:11	1
d5-NEtFOSAA	83.1		20 - 150	03/11/24 10:14	03/12/24 01:11	1
M2-4:2 FTS	107		20 - 150	03/11/24 10:14	03/12/24 01:11	1
M2-6:2 FTS	112		20 - 150	03/11/24 10:14	03/12/24 01:11	1
M2-8:2 FTS	111		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C3 HFPO-DA	98.9		20 - 150	03/11/24 10:14	03/12/24 01:11	1
d7-N-MeFOSE-M	94.6		20 - 150	03/11/24 10:14	03/12/24 01:11	1
d9-N-EtFOSE-M	87.6		20 - 150	03/11/24 10:14	03/12/24 01:11	1
d5-NEtPFOSA	72.9		20 - 150	03/11/24 10:14	03/12/24 01:11	1
d3-NMePFOSA	71.2		20 - 150	03/11/24 10:14	03/12/24 01:11	1
13C2-PFDoDA	82.9		20 - 150	03/11/24 10:14	03/12/24 01:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	76.5		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	23.5		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-12_0-2_P

Lab Sample ID: 460-299487-2

Date Collected: 03/06/24 09:00

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 82.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluoropentanoic acid (PFPeA)	0.39	U	0.39	0.097	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorohexanoic acid (PFHxA)	0.061	J	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorooctanoic acid (PFOA)	0.55		0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-12_0-2_P

Lab Sample ID: 460-299487-2

Date Collected: 03/06/24 09:00

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 82.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorooctanesulfonic acid (PFOS)	0.28		0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.93	U	1.93	0.48	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.93	U	1.93	0.48	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.39	U	0.39	0.097	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.39	U	0.39	0.097	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.77	U	0.77	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.39	U	0.39	0.097	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.97	U	0.97	0.24	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.84	U	4.84	1.21	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-12_0-2_P

Lab Sample ID: 460-299487-2

Date Collected: 03/06/24 09:00

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 82.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.84	U	4.84	1.21	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.39	U	0.39	0.097	ug/Kg	☼	03/11/24 10:14	03/12/24 01:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93.5		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C5 PFPeA	116		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C5 PFHxA	96.7		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C4 PFHpA	117		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C8 PFOA	106		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C9 PFNA	85.3		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C6 PFDA	87.0		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C7 PFUnA	90.5		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C2 PFTeDA	76.9		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C3 PFBS	96.2		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C3 PFHxS	95.1		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C8 PFOS	98.1		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C8 FOSA	101		20 - 150				03/11/24 10:14	03/12/24 01:26	1
d3-NMeFOSAA	88.0		20 - 150				03/11/24 10:14	03/12/24 01:26	1
d5-NEtFOSAA	95.1		20 - 150				03/11/24 10:14	03/12/24 01:26	1
M2-4:2 FTS	108		20 - 150				03/11/24 10:14	03/12/24 01:26	1
M2-6:2 FTS	119		20 - 150				03/11/24 10:14	03/12/24 01:26	1
M2-8:2 FTS	107		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C3 HFPO-DA	98.5		20 - 150				03/11/24 10:14	03/12/24 01:26	1
d7-N-MeFOSE-M	98.0		20 - 150				03/11/24 10:14	03/12/24 01:26	1
d9-N-EtFOSE-M	92.3		20 - 150				03/11/24 10:14	03/12/24 01:26	1
d5-NEtPFOSA	80.4		20 - 150				03/11/24 10:14	03/12/24 01:26	1
d3-NMePFOSA	76.3		20 - 150				03/11/24 10:14	03/12/24 01:26	1
13C2-PFDoDA	90.6		20 - 150				03/11/24 10:14	03/12/24 01:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.8		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	17.2		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-10_0-2_P

Lab Sample ID: 460-299487-3

Date Collected: 03/06/24 09:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluoroheptanoic acid (PFHpA)	0.091	J	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorooctanoic acid (PFOA)	0.76		0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-10_0-2_P

Lab Sample ID: 460-299487-3

Date Collected: 03/06/24 09:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorooctanesulfonic acid (PFOS)	1.79		0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorooctanesulfonamide (PFOSA)	0.098 J		0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
N-methylperfluorooctanesulfonamidooctic acid (NMeFOSAA)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.33		0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.91	U	1.91	0.48	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.91	U	1.91	0.48	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.76	U	0.76	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.95	U	0.95	0.24	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.77	U	4.77	1.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.77	U	4.77	1.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.048	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-10_0-2_P

Lab Sample ID: 460-299487-3

Date Collected: 03/06/24 09:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.095	ug/Kg	☼	03/11/24 10:14	03/12/24 01:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91.5		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C5 PFPeA	126		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C5 PFHxA	94.2		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C4 PFHpA	119		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C8 PFOA	97.2		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C9 PFNA	80.6		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C6 PFDA	80.7		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C7 PFUnA	83.3		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C2 PFTeDA	67.8		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C3 PFBS	87.5		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C3 PFHxS	94.8		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C8 PFOS	98.5		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C8 FOSA	92.5		20 - 150				03/11/24 10:14	03/12/24 01:41	1
d3-NMeFOSAA	105		20 - 150				03/11/24 10:14	03/12/24 01:41	1
d5-NEtFOSAA	103		20 - 150				03/11/24 10:14	03/12/24 01:41	1
M2-4:2 FTS	139		20 - 150				03/11/24 10:14	03/12/24 01:41	1
M2-6:2 FTS	123		20 - 150				03/11/24 10:14	03/12/24 01:41	1
M2-8:2 FTS	256 *		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C3 HFPO-DA	92.7		20 - 150				03/11/24 10:14	03/12/24 01:41	1
d7-N-MeFOSE-M	82.6		20 - 150				03/11/24 10:14	03/12/24 01:41	1
d9-N-EtFOSE-M	74.1		20 - 150				03/11/24 10:14	03/12/24 01:41	1
d5-NEtPFOSA	61.4		20 - 150				03/11/24 10:14	03/12/24 01:41	1
d3-NMePFOSA	62.6		20 - 150				03/11/24 10:14	03/12/24 01:41	1
13C2-PFDoDA	83.1		20 - 150				03/11/24 10:14	03/12/24 01:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	86.8		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	13.2		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-8_0-2_P

Lab Sample ID: 460-299487-4

Date Collected: 03/06/24 11:45

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 90.1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.74	U	0.74	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluoropentanoic acid (PFPeA)	0.37	U	0.37	0.093	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluoroheptanoic acid (PFHpA)	0.096	J	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorooctanoic acid (PFOA)	1.24		0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorotridecanoic acid (PFTTrDA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-8_0-2_P

Lab Sample ID: 460-299487-4

Date Collected: 03/06/24 11:45

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 90.1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.069	J	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorooctanesulfonic acid (PFOS)	0.88		0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.74	U	0.74	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	U	0.74	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.74	U	0.74	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.85	U	1.85	0.46	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.85	U	1.85	0.46	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.74	U	0.74	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.74	U	0.74	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.37	U	0.37	0.093	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.37	U	0.37	0.093	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.74	U	0.74	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.74	U	0.74	0.19	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.37	U	0.37	0.093	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.93	U	0.93	0.23	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.63	U	4.63	1.16	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.63	U	4.63	1.16	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.046	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.37	U	0.37	0.093	ug/Kg	☼	03/11/24 10:14	03/12/24 01:56	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-8_0-2_P

Lab Sample ID: 460-299487-4

Date Collected: 03/06/24 11:45

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 90.1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	92.2		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C5 PFPeA	121		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C5 PFHxA	98.6		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C4 PFHpA	109		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C8 PFOA	104		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C9 PFNA	81.9		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C6 PFDA	78.7		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C7 PFUnA	80.5		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C2 PFTeDA	60.5		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C3 PFBS	89.9		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C3 PFHxS	91.6		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C8 PFOS	90.6		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C8 FOSA	95.2		20 - 150	03/11/24 10:14	03/12/24 01:56	1
d3-NMeFOSAA	87.0		20 - 150	03/11/24 10:14	03/12/24 01:56	1
d5-NEtFOSAA	77.0		20 - 150	03/11/24 10:14	03/12/24 01:56	1
M2-4:2 FTS	101		20 - 150	03/11/24 10:14	03/12/24 01:56	1
M2-6:2 FTS	113		20 - 150	03/11/24 10:14	03/12/24 01:56	1
M2-8:2 FTS	94.8		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C3 HFPO-DA	99.6		20 - 150	03/11/24 10:14	03/12/24 01:56	1
d7-N-MeFOSE-M	90.4		20 - 150	03/11/24 10:14	03/12/24 01:56	1
d9-N-EtFOSE-M	78.4		20 - 150	03/11/24 10:14	03/12/24 01:56	1
d5-NEtPFOSA	69.1		20 - 150	03/11/24 10:14	03/12/24 01:56	1
d3-NMePFOSA	70.1		20 - 150	03/11/24 10:14	03/12/24 01:56	1
13C2-PFDoDA	76.9		20 - 150	03/11/24 10:14	03/12/24 01:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	90.1		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	9.9		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-9_0-2_P

Lab Sample ID: 460-299487-5

Date Collected: 03/06/24 11:55

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 91.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.70	U	0.70	0.18	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluoropentanoic acid (PFPeA)	0.35	U	0.35	0.088	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluorohexanoic acid (PFHxA)	0.052	J	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluoroheptanoic acid (PFHpA)	0.10	J	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluorooctanoic acid (PFOA)	0.31		0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluorotridecanoic acid (PFTrDA)	0.18	U	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.044	ug/Kg	✱	03/11/24 10:14	03/12/24 02:11	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-9_0-2_P

Lab Sample ID: 460-299487-5

Date Collected: 03/06/24 11:55

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 91.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.70	U	0.70	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.70	U	0.70	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.70	U	0.70	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.75	U	1.75	0.44	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.75	U	1.75	0.44	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.70	U	0.70	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.70	U	0.70	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.35	U	0.35	0.088	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.35	U	0.35	0.088	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.70	U	0.70	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.70	U	0.70	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	0.35	U	0.35	0.088	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.88	U	0.88	0.22	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.38	U	4.38	1.09	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.38	U	4.38	1.09	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.044	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.35	U	0.35	0.088	ug/Kg	☼	03/11/24 10:14	03/12/24 02:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93.7		20 - 150				03/11/24 10:14	03/12/24 02:11	1
13C5 PFPeA	114		20 - 150				03/11/24 10:14	03/12/24 02:11	1
13C5 PFHxA	95.3		20 - 150				03/11/24 10:14	03/12/24 02:11	1
13C4 PFHpA	108		20 - 150				03/11/24 10:14	03/12/24 02:11	1
13C8 PFOA	99.8		20 - 150				03/11/24 10:14	03/12/24 02:11	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-9_0-2_P

Lab Sample ID: 460-299487-5

Date Collected: 03/06/24 11:55

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 91.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	83.6		20 - 150	03/11/24 10:14	03/12/24 02:11	1
13C6 PFDA	79.7		20 - 150	03/11/24 10:14	03/12/24 02:11	1
13C7 PFUnA	74.6		20 - 150	03/11/24 10:14	03/12/24 02:11	1
13C2 PFTeDA	56.7		20 - 150	03/11/24 10:14	03/12/24 02:11	1
13C3 PFBS	94.1		20 - 150	03/11/24 10:14	03/12/24 02:11	1
13C3 PFHxS	92.8		20 - 150	03/11/24 10:14	03/12/24 02:11	1
13C8 PFOS	82.6		20 - 150	03/11/24 10:14	03/12/24 02:11	1
13C8 FOSA	90.6		20 - 150	03/11/24 10:14	03/12/24 02:11	1
d3-NMeFOSAA	80.6		20 - 150	03/11/24 10:14	03/12/24 02:11	1
d5-NEtFOSAA	72.7		20 - 150	03/11/24 10:14	03/12/24 02:11	1
M2-4:2 FTS	95.4		20 - 150	03/11/24 10:14	03/12/24 02:11	1
M2-6:2 FTS	112		20 - 150	03/11/24 10:14	03/12/24 02:11	1
M2-8:2 FTS	98.0		20 - 150	03/11/24 10:14	03/12/24 02:11	1
13C3 HFPO-DA	95.9		20 - 150	03/11/24 10:14	03/12/24 02:11	1
d7-N-MeFOSE-M	85.9		20 - 150	03/11/24 10:14	03/12/24 02:11	1
d9-N-EtFOSE-M	76.5		20 - 150	03/11/24 10:14	03/12/24 02:11	1
d5-NEtPFOSA	65.4		20 - 150	03/11/24 10:14	03/12/24 02:11	1
d3-NMePFOSA	66.7		20 - 150	03/11/24 10:14	03/12/24 02:11	1
13C2-PFDoDA	69.7		20 - 150	03/11/24 10:14	03/12/24 02:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	91.0		0.1	0.1	%			03/12/24 21:01	1
Percent Moisture (EPA Moisture)	9.0		0.1	0.1	%			03/12/24 21:01	1

Client Sample ID: RSB-7_0-2_P

Lab Sample ID: 460-299487-6

Date Collected: 03/06/24 12:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.71	U	0.71	0.18	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluoropentanoic acid (PFPeA)	0.36	U	0.36	0.089	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorohexanoic acid (PFHxA)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluoroheptanoic acid (PFHpA)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorooctanoic acid (PFOA)	0.10	J	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorononanoic acid (PFNA)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorodecanoic acid (PFDA)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluoroundecanoic acid (PFUnA)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorododecanoic acid (PFDoA)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorotridecanoic acid (PFTTrDA)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorotetradecanoic acid (PFTeDA)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluoropentanesulfonic acid (PFPeS)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluoroheptanesulfonic acid (PFHpS)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorooctanesulfonic acid (PFOS)	0.34		0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1
Perfluorononanesulfonic acid (PFNS)	0.18	U	0.18	0.045	ug/Kg	✱	03/11/24 10:14	03/12/24 02:26	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-7_0-2_P

Lab Sample ID: 460-299487-6

Date Collected: 03/06/24 12:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	0.18	U	0.18	0.045	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	U	0.71	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
Perfluorooctanesulfonamide (PFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.18	U	0.18	0.045	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	U	0.18	0.045	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.78	U	1.78	0.45	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.78	U	1.78	0.45	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.71	U	0.71	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	U	0.71	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.36	U	0.36	0.089	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.36	U	0.36	0.089	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.71	U	0.71	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.71	U	0.71	0.18	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.36	U	0.36	0.089	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.89	U	0.89	0.22	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.46	U	4.46	1.11	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.46	U	4.46	1.11	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
Perfluorodecanesulfonic acid (PFDS)	0.18	U	0.18	0.045	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.36	U	0.36	0.089	ug/Kg	☼	03/11/24 10:14	03/12/24 02:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91.2		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C5 PFPeA	118		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C5 PFHxA	96.6		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C4 PFHpA	114		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C8 PFOA	110		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C9 PFNA	87.4		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C6 PFDA	83.0		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C7 PFUnA	83.5		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C2 PFTeDA	72.6		20 - 150	03/11/24 10:14	03/12/24 02:26	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-7_0-2_P

Lab Sample ID: 460-299487-6

Date Collected: 03/06/24 12:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	92.5		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C3 PFHxS	97.9		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C8 PFOS	97.5		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C8 FOSA	94.1		20 - 150	03/11/24 10:14	03/12/24 02:26	1
d3-NMeFOSAA	88.7		20 - 150	03/11/24 10:14	03/12/24 02:26	1
d5-NEtFOSAA	79.9		20 - 150	03/11/24 10:14	03/12/24 02:26	1
M2-4:2 FTS	105		20 - 150	03/11/24 10:14	03/12/24 02:26	1
M2-6:2 FTS	120		20 - 150	03/11/24 10:14	03/12/24 02:26	1
M2-8:2 FTS	101		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C3 HFPO-DA	95.9		20 - 150	03/11/24 10:14	03/12/24 02:26	1
d7-N-MeFOSE-M	84.4		20 - 150	03/11/24 10:14	03/12/24 02:26	1
d9-N-EtFOSE-M	80.6		20 - 150	03/11/24 10:14	03/12/24 02:26	1
d5-NEtPFOSA	72.9		20 - 150	03/11/24 10:14	03/12/24 02:26	1
d3-NMePFOSA	68.1		20 - 150	03/11/24 10:14	03/12/24 02:26	1
13C2-PFDoDA	83.1		20 - 150	03/11/24 10:14	03/12/24 02:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	89.3		0.1	0.1	%			03/13/24 16:30	1
Percent Moisture (EPA Moisture)	10.7		0.1	0.1	%			03/13/24 16:30	1

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Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
460-299487-1	RSB-11_0-2_P	91.9	114	97.6	112	99.1	86.4	87.2	86.9
460-299487-2	RSB-12_0-2_P	93.5	116	96.7	117	106	85.3	87.0	90.5
460-299487-3	RSB-10_0-2_P	91.5	126	94.2	119	97.2	80.6	80.7	83.3
460-299487-3 DU	RSB-10_0-2_P	88.6	125	90.0	111	99.4	83.5	82.4	86.0
460-299487-4	RSB-8_0-2_P	92.2	121	98.6	109	104	81.9	78.7	80.5
460-299487-5	RSB-9_0-2_P	93.7	114	95.3	108	99.8	83.6	79.7	74.6
460-299487-6	RSB-7_0-2_P	91.2	118	96.6	114	110	87.4	83.0	83.5
LCS 240-605629/3-A	Lab Control Sample	92.3	115	101	110	107	83.3	88.6	92.8
LLCS 240-605629/2-A	Lab Control Sample	95.6	114	101	109	109	86.1	88.9	94.8
MB 240-605629/1-A	Method Blank	89.1	107	95.8	107	99.5	86.2	84.5	87.5

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
460-299487-1	RSB-11_0-2_P	71.8	96.9	98.0	104	92.8	88.8	83.1	107
460-299487-2	RSB-12_0-2_P	76.9	96.2	95.1	98.1	101	88.0	95.1	108
460-299487-3	RSB-10_0-2_P	67.8	87.5	94.8	98.5	92.5	105	103	139
460-299487-3 DU	RSB-10_0-2_P	71.6	86.7	93.9	102	96.8	101	104	138
460-299487-4	RSB-8_0-2_P	60.5	89.9	91.6	90.6	95.2	87.0	77.0	101
460-299487-5	RSB-9_0-2_P	56.7	94.1	92.8	82.6	90.6	80.6	72.7	95.4
460-299487-6	RSB-7_0-2_P	72.6	92.5	97.9	97.5	94.1	88.7	79.9	105
LCS 240-605629/3-A	Lab Control Sample	83.4	97.9	96.7	104	102	99.7	88.9	106
LLCS 240-605629/2-A	Lab Control Sample	89.6	97.6	96.2	102	94.8	93.7	87.8	95.4
MB 240-605629/1-A	Method Blank	81.6	94.6	92.8	95.6	90.1	83.0	78.5	108

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDODA (20-150)
460-299487-1	RSB-11_0-2_P	112	111	98.9	94.6	87.6	72.9	71.2	82.9
460-299487-2	RSB-12_0-2_P	119	107	98.5	98.0	92.3	80.4	76.3	90.6
460-299487-3	RSB-10_0-2_P	123	256 *	92.7	82.6	74.1	61.4	62.6	83.1
460-299487-3 DU	RSB-10_0-2_P	123	243 *	88.3	78.9	75.3	64.4	60.3	84.7
460-299487-4	RSB-8_0-2_P	113	94.8	99.6	90.4	78.4	69.1	70.1	76.9
460-299487-5	RSB-9_0-2_P	112	98.0	95.9	85.9	76.5	65.4	66.7	69.7
460-299487-6	RSB-7_0-2_P	120	101	95.9	84.4	80.6	72.9	68.1	83.1
LCS 240-605629/3-A	Lab Control Sample	105	94.1	103	104	96.5	78.0	70.2	93.2
LLCS 240-605629/2-A	Lab Control Sample	115	108	100	96.6	92.1	75.6	71.0	91.6
MB 240-605629/1-A	Method Blank	108	97.3	94.2	89.4	80.9	63.9	63.1	87.7

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC

Job ID: 460-299487-1

Project/Site: 12 Franklin St

C8PFOS = 13C8 PFOS

PFOSA = 13C8 FOSA

d3NMFOS = d3-NMeFOSAA

d5NEFOS = d5-NEtFOSAA

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

d5NPFSA = d5-NEtPFOSA

d3NMFSA = d3-NMePFOSA

PFDoDA = 13C2-PFDoDA

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-605629/1-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605629

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	0.80	U	0.80	0.20	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorotridecanoic acid (PFTriDA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.80	U	0.80	0.20	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.80	U	0.80	0.20	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.80	U	0.80	0.20	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	U	2.00	0.50	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	U	2.00	0.50	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.80	U	0.80	0.20	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.80	U	0.80	0.20	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.80	U	0.80	0.20	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.80	U	0.80	0.20	ug/Kg		03/11/24 10:14	03/11/24 23:55	1

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-605629/1-A
Matrix: Solid
Analysis Batch: 605690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605629

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	U	1.00	0.25	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	U	5.00	1.25	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	U	5.00	1.25	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.050	ug/Kg		03/11/24 10:14	03/11/24 23:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.10	ug/Kg		03/11/24 10:14	03/11/24 23:55	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	89.1		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C5 PFPeA	107		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C5 PFHxA	95.8		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C4 PFHpA	107		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C8 PFOA	99.5		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C9 PFNA	86.2		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C6 PFDA	84.5		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C7 PFUnA	87.5		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C2 PFTeDA	81.6		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C3 PFBS	94.6		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C3 PFHxS	92.8		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C8 PFOS	95.6		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C8 FOSA	90.1		20 - 150	03/11/24 10:14	03/11/24 23:55	1
d3-NMeFOSAA	83.0		20 - 150	03/11/24 10:14	03/11/24 23:55	1
d5-NEtFOSAA	78.5		20 - 150	03/11/24 10:14	03/11/24 23:55	1
M2-4:2 FTS	108		20 - 150	03/11/24 10:14	03/11/24 23:55	1
M2-6:2 FTS	108		20 - 150	03/11/24 10:14	03/11/24 23:55	1
M2-8:2 FTS	97.3		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C3 HFPO-DA	94.2		20 - 150	03/11/24 10:14	03/11/24 23:55	1
d7-N-MeFOSE-M	89.4		20 - 150	03/11/24 10:14	03/11/24 23:55	1
d9-N-EtFOSE-M	80.9		20 - 150	03/11/24 10:14	03/11/24 23:55	1
d5-NEtPFOSA	63.9		20 - 150	03/11/24 10:14	03/11/24 23:55	1
d3-NMePFOSA	63.1		20 - 150	03/11/24 10:14	03/11/24 23:55	1
13C2-PFDODA	87.7		20 - 150	03/11/24 10:14	03/11/24 23:55	1

Lab Sample ID: LCS 240-605629/3-A
Matrix: Solid
Analysis Batch: 605690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	5.00	5.037		ug/Kg		101	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.602		ug/Kg		104	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.652		ug/Kg		106	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.619		ug/Kg		105	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.682		ug/Kg		107	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.464		ug/Kg		99	40 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-605629/3-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.50	2.383		ug/Kg		95	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.316		ug/Kg		93	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.287		ug/Kg		91	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.259		ug/Kg		90	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.106		ug/Kg		95	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.596		ug/Kg		111	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.298		ug/Kg		101	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.335		ug/Kg		98	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	2.226		ug/Kg		96	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.335		ug/Kg		97	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.129		ug/Kg		88	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	9.277		ug/Kg		99	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	10.34		ug/Kg		109	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	11.50		ug/Kg		120	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.633		ug/Kg		105	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.648		ug/Kg		106	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.372		ug/Kg		95	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.655		ug/Kg		106	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.746		ug/Kg		110	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	24.88		ug/Kg		100	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	25.56		ug/Kg		102	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	10.68		ug/Kg		107	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	11.27		ug/Kg		120	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.00	5.179		ug/Kg		104	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.00	5.004		ug/Kg		100	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9.32	9.909		ug/Kg		106	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	9.42	10.10		ug/Kg		107	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	4.45	5.030		ug/Kg		113	40 - 150

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-605629/3-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12.5	11.78		ug/Kg		94	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5	72.51		ug/Kg		116	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5	64.62		ug/Kg		103	40 - 150
Perfluorodecanesulfonic acid (PFDS)	2.41	2.378		ug/Kg		99	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.00	5.069		ug/Kg		101	40 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	92.3		20 - 150
13C5 PFPeA	115		20 - 150
13C5 PFHxA	101		20 - 150
13C4 PFHpA	110		20 - 150
13C8 PFOA	107		20 - 150
13C9 PFNA	83.3		20 - 150
13C6 PFDA	88.6		20 - 150
13C7 PFUnA	92.8		20 - 150
13C2 PFTeDA	83.4		20 - 150
13C3 PFBS	97.9		20 - 150
13C3 PFHxS	96.7		20 - 150
13C8 PFOS	104		20 - 150
13C8 FOSA	102		20 - 150
d3-NMeFOSAA	99.7		20 - 150
d5-NEtFOSAA	88.9		20 - 150
M2-4:2 FTS	106		20 - 150
M2-6:2 FTS	105		20 - 150
M2-8:2 FTS	94.1		20 - 150
13C3 HFPO-DA	103		20 - 150
d7-N-MeFOSE-M	104		20 - 150
d9-N-EtFOSE-M	96.5		20 - 150
d5-NEtPFOSA	78.0		20 - 150
d3-NMePFOSA	70.2		20 - 150
13C2-PFDoDA	93.2		20 - 150

Lab Sample ID: LLCS 240-605629/2-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605629

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	0.881		ug/Kg		110	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.414		ug/Kg		104	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.206		ug/Kg		103	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.239		ug/Kg		120	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.213		ug/Kg		107	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.212		ug/Kg		106	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.203		ug/Kg		102	40 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-605629/2-A

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605629

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	0.200	0.186	J	ug/Kg		93	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.188	J	ug/Kg		94	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.187	J	ug/Kg		93	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.198	J	ug/Kg		99	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.198	J	ug/Kg		112	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.201		ug/Kg		107	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.199	J	ug/Kg		109	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.188	J	ug/Kg		99	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.186	J	ug/Kg		100	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.196	J	ug/Kg		102	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.180	J	ug/Kg		93	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.883		ug/Kg		118	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.777	J	ug/Kg		103	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.939		ug/Kg		123	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.225		ug/Kg		112	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.214		ug/Kg		107	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.213		ug/Kg		107	40 - 150
N-methylperfluorooctanesulfonamide doacetic acid (NMeFOSAA)	0.200	0.211		ug/Kg		106	40 - 150
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	0.200	0.242		ug/Kg		121	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.072		ug/Kg		104	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	2.042		ug/Kg		102	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	0.861		ug/Kg		108	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.935		ug/Kg		124	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.400	0.404		ug/Kg		101	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.400	0.414		ug/Kg		104	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.746	0.843		ug/Kg		113	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.754	0.808		ug/Kg		107	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.356	0.402		ug/Kg		113	40 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-605629/2-A
Matrix: Solid
Analysis Batch: 605690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605629

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	0.882	J	ug/Kg		88	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	6.005		ug/Kg		120	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	5.249		ug/Kg		105	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.193	0.182	J	ug/Kg		94	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.400	0.405		ug/Kg		101	40 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	95.6		20 - 150
13C5 PFPeA	114		20 - 150
13C5 PFHxA	101		20 - 150
13C4 PFHpA	109		20 - 150
13C8 PFOA	109		20 - 150
13C9 PFNA	86.1		20 - 150
13C6 PFDA	88.9		20 - 150
13C7 PFUnA	94.8		20 - 150
13C2 PFTeDA	89.6		20 - 150
13C3 PFBS	97.6		20 - 150
13C3 PFHxS	96.2		20 - 150
13C8 PFOS	102		20 - 150
13C8 FOSA	94.8		20 - 150
d3-NMeFOSAA	93.7		20 - 150
d5-NEtFOSAA	87.8		20 - 150
M2-4:2 FTS	95.4		20 - 150
M2-6:2 FTS	115		20 - 150
M2-8:2 FTS	108		20 - 150
13C3 HFPO-DA	100		20 - 150
d7-N-MeFOSE-M	96.6		20 - 150
d9-N-EtFOSE-M	92.1		20 - 150
d5-NEtPFOSA	75.6		20 - 150
d3-NMePFOSA	71.0		20 - 150
13C2-PFDoDA	91.6		20 - 150

Lab Sample ID: 460-299487-3 DU
Matrix: Solid
Analysis Batch: 605690

Client Sample ID: RSB-10_0-2_P
Prep Type: Total/NA
Prep Batch: 605629

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Perfluorobutanoic acid (PFBA)	0.76	U	0.76	U	ug/Kg	☼	NC	30
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	U	ug/Kg	☼	NC	30
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluoroheptanoic acid (PFHpA)	0.091	J	0.103	J	ug/Kg	☼	12	30
Perfluorooctanoic acid (PFOA)	0.76		0.726		ug/Kg	☼	4	30
Perfluorononanoic acid (PFNA)	0.19	U	0.19	U	ug/Kg	☼	NC	30
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	U	ug/Kg	☼	NC	30

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-299487-3 DU

Matrix: Solid

Analysis Batch: 605690

Client Sample ID: RSB-10_0-2_P

Prep Type: Total/NA

Prep Batch: 605629

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorooctanesulfonic acid (PFOS)	1.79	U	1.598	U	ug/Kg	✳	11	30
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	U	ug/Kg	✳	NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.76	U	0.76	U	ug/Kg	✳	NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.76	U	0.76	U	ug/Kg	✳	NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.76	U	0.76	U	ug/Kg	✳	NC	30
Perfluorooctanesulfonamide (PFOSA)	0.098	J	0.101	J	ug/Kg	✳	3	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
N-methylperfluorooctanesulfonamide (NMeFOSAA)	0.19	U	0.19	U	ug/Kg	✳	NC	30
N-ethylperfluorooctanesulfonamide (NEtFOSAA)	1.33	U	1.151	U	ug/Kg	✳	15	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.91	U	1.89	U	ug/Kg	✳	NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.91	U	1.89	U	ug/Kg	✳	NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.76	U	0.76	U	ug/Kg	✳	NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.76	U	0.76	U	ug/Kg	✳	NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	U	ug/Kg	✳	NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	U	ug/Kg	✳	NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.76	U	0.76	U	ug/Kg	✳	NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.76	U	0.76	U	ug/Kg	✳	NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.38	U	0.38	U	ug/Kg	✳	NC	30

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-299487-3 DU
Matrix: Solid
Analysis Batch: 605690

Client Sample ID: RSB-10_0-2_P
Prep Type: Total/NA
Prep Batch: 605629

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.95	U	0.95	U	ug/Kg	⊛	NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.77	U	4.74	U	ug/Kg	⊛	NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	4.77	U	4.74	U	ug/Kg	⊛	NC	30
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	U	ug/Kg	⊛	NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	U	ug/Kg	⊛	NC	30

Isotope Dilution	DU	DU	Limits
	%Recovery	Qualifier	
13C4 PFBA	88.6		20 - 150
13C5 PFPeA	125		20 - 150
13C5 PFHxA	90.0		20 - 150
13C4 PFHpA	111		20 - 150
13C8 PFOA	99.4		20 - 150
13C9 PFNA	83.5		20 - 150
13C6 PFDA	82.4		20 - 150
13C7 PFUnA	86.0		20 - 150
13C2 PFTeDA	71.6		20 - 150
13C3 PFBS	86.7		20 - 150
13C3 PFHxS	93.9		20 - 150
13C8 PFOS	102		20 - 150
13C8 FOSA	96.8		20 - 150
d3-NMeFOSAA	101		20 - 150
d5-NEtFOSAA	104		20 - 150
M2-4:2 FTS	138		20 - 150
M2-6:2 FTS	123		20 - 150
M2-8:2 FTS	243 *		20 - 150
13C3 HFPO-DA	88.3		20 - 150
d7-N-MeFOSE-M	78.9		20 - 150
d9-N-EtFOSE-M	75.3		20 - 150
d5-NEtPFOSA	64.4		20 - 150
d3-NMePFOSA	60.3		20 - 150
13C2-PFDODA	84.7		20 - 150

Method: Moisture - Percent Moisture

Lab Sample ID: 460-299487-3 DU
Matrix: Solid
Analysis Batch: 605876

Client Sample ID: RSB-10_0-2_P
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Percent Solids	86.8		86.6		%		0.2	20
Percent Moisture	13.2		13.4		%		2	20

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-201034-D-1 DU
Matrix: Solid
Analysis Batch: 606007

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	86.2		86.2		%		0	20
Percent Moisture	13.8		13.8		%		0.1	20

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QC Association Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

LCMS

Prep Batch: 605629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299487-1	RSB-11_0-2_P	Total/NA	Solid	1633 Shake	
460-299487-2	RSB-12_0-2_P	Total/NA	Solid	1633 Shake	
460-299487-3	RSB-10_0-2_P	Total/NA	Solid	1633 Shake	
460-299487-4	RSB-8_0-2_P	Total/NA	Solid	1633 Shake	
460-299487-5	RSB-9_0-2_P	Total/NA	Solid	1633 Shake	
460-299487-6	RSB-7_0-2_P	Total/NA	Solid	1633 Shake	
MB 240-605629/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-605629/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-605629/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
460-299487-3 DU	RSB-10_0-2_P	Total/NA	Solid	1633 Shake	

Analysis Batch: 605690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299487-1	RSB-11_0-2_P	Total/NA	Solid	1633	605629
460-299487-2	RSB-12_0-2_P	Total/NA	Solid	1633	605629
460-299487-3	RSB-10_0-2_P	Total/NA	Solid	1633	605629
460-299487-4	RSB-8_0-2_P	Total/NA	Solid	1633	605629
460-299487-5	RSB-9_0-2_P	Total/NA	Solid	1633	605629
460-299487-6	RSB-7_0-2_P	Total/NA	Solid	1633	605629
MB 240-605629/1-A	Method Blank	Total/NA	Solid	1633	605629
LCS 240-605629/3-A	Lab Control Sample	Total/NA	Solid	1633	605629
LLCS 240-605629/2-A	Lab Control Sample	Total/NA	Solid	1633	605629
460-299487-3 DU	RSB-10_0-2_P	Total/NA	Solid	1633	605629

General Chemistry

Analysis Batch: 605876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299487-1	RSB-11_0-2_P	Total/NA	Solid	Moisture	
460-299487-2	RSB-12_0-2_P	Total/NA	Solid	Moisture	
460-299487-3	RSB-10_0-2_P	Total/NA	Solid	Moisture	
460-299487-4	RSB-8_0-2_P	Total/NA	Solid	Moisture	
460-299487-5	RSB-9_0-2_P	Total/NA	Solid	Moisture	
460-299487-3 DU	RSB-10_0-2_P	Total/NA	Solid	Moisture	

Analysis Batch: 606007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-299487-6	RSB-7_0-2_P	Total/NA	Solid	Moisture	
240-201034-D-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-11_0-2_P

Lab Sample ID: 460-299487-1

Date Collected: 03/06/24 08:40

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: RSB-11_0-2_P

Lab Sample ID: 460-299487-1

Date Collected: 03/06/24 08:40

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605629	WJW	EET CLE	03/11/24 10:14
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/12/24 01:11

Client Sample ID: RSB-12_0-2_P

Lab Sample ID: 460-299487-2

Date Collected: 03/06/24 09:00

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: RSB-12_0-2_P

Lab Sample ID: 460-299487-2

Date Collected: 03/06/24 09:00

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605629	WJW	EET CLE	03/11/24 10:14
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/12/24 01:26

Client Sample ID: RSB-10_0-2_P

Lab Sample ID: 460-299487-3

Date Collected: 03/06/24 09:15

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: RSB-10_0-2_P

Lab Sample ID: 460-299487-3

Date Collected: 03/06/24 09:15

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605629	WJW	EET CLE	03/11/24 10:14
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/12/24 01:41

Client Sample ID: RSB-8_0-2_P

Lab Sample ID: 460-299487-4

Date Collected: 03/06/24 11:45

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Eurofins Edison

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
 Project/Site: 12 Franklin St

Job ID: 460-299487-1

Client Sample ID: RSB-8_0-2_P

Lab Sample ID: 460-299487-4

Date Collected: 03/06/24 11:45

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605629	WJW	EET CLE	03/11/24 10:14
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/12/24 01:56

Client Sample ID: RSB-9_0-2_P

Lab Sample ID: 460-299487-5

Date Collected: 03/06/24 11:55

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	605876	VH6H	EET CLE	03/12/24 21:01

Client Sample ID: RSB-9_0-2_P

Lab Sample ID: 460-299487-5

Date Collected: 03/06/24 11:55

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605629	WJW	EET CLE	03/11/24 10:14
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/12/24 02:11

Client Sample ID: RSB-7_0-2_P

Lab Sample ID: 460-299487-6

Date Collected: 03/06/24 12:05

Matrix: Solid

Date Received: 03/06/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	606007	VH6H	EET CLE	03/13/24 16:30

Client Sample ID: RSB-7_0-2_P

Lab Sample ID: 460-299487-6

Date Collected: 03/06/24 12:05

Matrix: Solid

Date Received: 03/06/24 19:00

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			605629	WJW	EET CLE	03/11/24 10:14
Total/NA	Analysis	1633		1	605690	DSH	EET CLE	03/12/24 02:26

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299487-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299487-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
Moisture	Percent Moisture	EPA	EET CLE
1633 Shake	Shake Extraction with SPE	EPA	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 12 Franklin St

Job ID: 460-299487-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-299487-1	RSB-11_0-2_P	Solid	03/06/24 08:40	03/06/24 19:00
460-299487-2	RSB-12_0-2_P	Solid	03/06/24 09:00	03/06/24 19:00
460-299487-3	RSB-10_0-2_P	Solid	03/06/24 09:15	03/06/24 19:00
460-299487-4	RSB-8_0-2_P	Solid	03/06/24 11:45	03/06/24 19:00
460-299487-5	RSB-9_0-2_P	Solid	03/06/24 11:55	03/06/24 19:00
460-299487-6	RSB-7_0-2_P	Solid	03/06/24 12:05	03/06/24 19:00

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address: 12 Franklin St

NYC Chain of Custody Record

673999



Environment Testing
America

TAL-9210

Regulatory Program: RCRA NPDES DSW Other

Project Manager: Fanny L. V. Lopez Date: 3/16/24 Carrier: _____

Company Name: Box Client Contact: _____

Address: 204 Shattuck St

City/State/Zip: Stamford, NY 11491

Phone: 651-232-2600

Fax: _____

Project Name: 12 Franklin St

Site: _____

PO # 4170 0011000

Analysis Turnaround Time: CALENDAR DAYS WORKING DAYS

TAT if different from Below: Standard

2 weeks 1 week 2 days 1 day

Sample Date: 3/12/24 Sample Time: 0940 Sample Type: C Matrix: S # of Cont: 1

Sample Identification: RSB-11-0-2-P

Sample Date: " Sample Time: 0900 Sample Type: C Matrix: S # of Cont: 1

Sample Identification: RSB-12-0-2-P

Sample Date: " Sample Time: 0915 Sample Type: C Matrix: S # of Cont: 1

Sample Identification: RSB-10-0-2-P

Sample Date: " Sample Time: 1145 Sample Type: C Matrix: S # of Cont: 1

Sample Identification: RSB-8-0-2-P

Sample Date: " Sample Time: 1155 Sample Type: C Matrix: S # of Cont: 1

Sample Identification: RSB-9-0-2-P

Sample Date: " Sample Time: 1205 Sample Type: C Matrix: S # of Cont: 1

Sample Identification: RSB-7-0-2-P

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ # of Cont: _____

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ # of Cont: _____

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ # of Cont: _____

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ # of Cont: _____

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ # of Cont: _____

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Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ # of Cont: _____

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ # of Cont: _____

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ # of Cont: _____

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ # of Cont: _____

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification: _____

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the

Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: cat B

Cooler Temp. (°C): Obs'd: _____ Cor'd: _____

Return to Client Disposal by Lab Archive for _____ Months

Therm ID No. _____

Company: Box Date/Time: 03/06/24 17:00

Company: Franklin Villages Date/Time: 03/06/24 13:45

Company: Am Date/Time: 03/06/24 13:45

25/23

59/AB JM 2.08
Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler		Lab PM: Haas, Melissa		Carrier Tracking No(s):		COC No: 460-70535.1			
Client Contact: Shipping/Receiving		Phone:		E-Mail: Melissa.Haas@et.eurofinsus.com		State of Origin: New York		Page: Page 1 of 1			
Company: Eurofins Environment Testing North Cent				Accreditations Required (See note): NELAP New York				Job #: 460-299487 1			
Address: 180 S. Van Buren Avenue, City: Barberton State, Zip: OH, 44203 Phone: 330-497-9396(Tel) 330-497-0772(Fax) Email:		Due Date Requested: 3/8/2024 TAT Requested (days):		Analysis Requested						Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify) Other:	
Project Name: 12 Franklin St Site:		Project #: 46043021 SSOW#:									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wast/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake 1633 Standard List of 40	Moisture	Total Number of Containers	Special Instructions/Note:
RSB-11_0-2_P (460-299487 1)		3/6/24	08:40 Eastern	Solid		X	X				
RSB-12_0-2_P (460-299487-2)		3/6/24	09:00 Eastern	Solid		X	X				
RSB-10_0-2_P (460-299487-3)		3/6/24	09:15 Eastern	Solid		X	X				
RSB-8_0-2_P (460-299487-4)		3/6/24	11:45 Eastern	Solid		X	X				
RSB-9_0-2_P (460-299487-5)		3/6/24	11:55 Eastern	Solid		X	X				
RSB-7_0-2_P (460-299487-6)		3/6/24	12:05 Eastern	Solid		X	X				
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins' Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.</p>											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III IV Other (specify)				Primary Deliverable Rank: 1		Special Instructions/QC Requirements:					
Empty Kit Relinquished by			Date:		Time:			Method of Shipment:			
Relinquished by		Date/Time:		Company:		Received by		Date/Time:		Company:	
Relinquished by		Date/Time:		Company:		Received by		Date/Time:		Company:	
Relinquished by		Date/Time:		Company:		Received by		Date/Time:		Company:	
Custody Seals Intact:		Custody Seal No.		Page 38 of 44				Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No								3/14/2024			

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Client ECTMC Site Name _____

Cooler Received on 03/05/24 Opened on 02/08/24

Cooler unpacked by J Mcrosky

FedEx. 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap Foam Plastic Bag None Other _____

COOLANT Wet Ice Blue Ice Dry Ice Water None _____

1 Cooler temperature upon receipt See Multiple Cooler Form 3-08 um 2-11

IR Gun # 13 DMCF HS 70.0 °C Observed Cooler Temp 38 °C Corrected Cooler Temp 43 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA

-Were tamper/custody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA

4. Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (Y/N) # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12. Are these work share samples and all listed on the COC? Yes No NA

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HG316719

14 Were VOA's on the COC? Yes No NA H4329089

15 Were air bubbles >6 mm in any VOA vials? Yes No NA

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____

17 Was a LL Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

Tests that are not checked for pH by Receiving: VOA's Oil and Grease TOC

- 1
- 2
- 3
- 4
- 5
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- 8
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- 10
- 11
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OH, NJ
 ZIP CODE
 ZIP CODE

549-3900

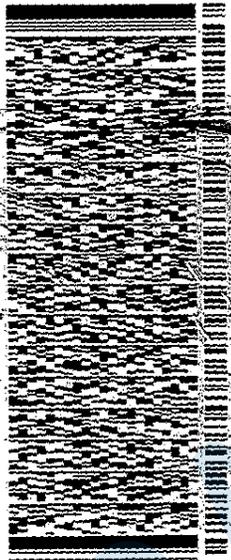
SHIP DATE 07MAR24
 CONTACT 39 95 LB
 C/PD 0615092/CNF23803
 BILL SENDER

SHIPPING/RECEIVING
 EUROPEANS ENVIRONMENT TESTING NORTH
 180 S. VAN BUREN AVENUE

BARBERTON OH 44203

(330) 497-1122
 PO: 128

REF: 8460-179447

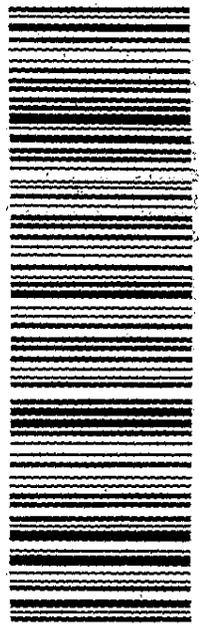


TRK 0201 6553 1011 3196

FRI - 08 MAR 10:30A
 PRIORITY OVERNIGHT

NX CAKA

OH US CLE
 44203



25/25

38/43 JM 3/08
Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Shipping/Receiving		Phone:		Haas, Melissa		E-Mail: Melissa.Haas@et.eurofinsus.com		State of Origin: New York	
Company: Eurofins Environment Testing North Cent		Accreditations Required (See note): NELAP New York		Job #: 460-299487 1		Page: Page 1 of 1			
Address: 180 S. Van Buren Avenue,		Due Date Requested: 3/8/2024		Analysis Requested		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)		Other:	
City: Barberton		TAT Requested (days):						Field Filtered Sample (Yes or No)	
State, Zip: OH, 44203		PO #:		Moisture		Total Number of Containers		E105	
Phone: 330-497-9396(Tel) 330-497-0772(Fax)		WO #:						Special Instructions/Note:	
Email:		Project #: 46043021							
Project Name: 12 Franklin St		SSOW#:							
Site:									
Sample Identification Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
								Preservation Code:	
RSB-11_0-2_P (460-299487 1)		3/6/24		08:40 Eastern		Solid		X X	
RSB-12_0-2_P (460-299487-2)		3/6/24		09:00 Eastern		Solid		X X	
RSB-10_0-2_P (460-299487-3)		3/6/24		09:15 Eastern		Solid		X X	
RSB-8_0-2_P (460-299487-4)		3/6/24		11:45 Eastern		Solid		X X	
RSB-9_0-2_P (460-299487-5)		3/6/24		11:55 Eastern		Solid		X X	
RSB-7_0-2_P (460-299487-6)		3/6/24		12:05 Eastern		Solid		X X	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.</p>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III IV Other (specify)			Primary Deliverable Rank: 1		Special Instructions/QC Requirements:				
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:		
Relinquished by: <i>[Signature]</i>			Date/Time: 3/7/24 1900		Company: EETNE		Received by: J Morosko		Date/Time: 03/08/24 1000
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:
Custody Seals Intact:		Custody Seal No.:		Page 41 of 44			Cooler Temperature(s) °C and Other Remarks:		
Δ Yes Δ No							3/14/2024		

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Field Ops - Cleveland Sample Receipt Form/Narrative Log #
 Barberton Facility

Client FE-TWC Site Name _____ Cooler unpacked by: J Mcroser

Cooler Received on 03/08/24 Opened on 03/10/24

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

FedEx: 1st Grd EXD UPS PAS FAS Waypoint Client Drop Off Burofinis Courer Other _____

Burofinis Cooler # EC Foam Box _____ Client Cooler _____ Box _____ Other _____
 Packing material used Bubble Wrap Foam _____ Plastic Bag _____ None _____ Other _____
 COOLANT: Water Blue Ice _____ Dry Ice _____ Water _____ None _____
 See Multiple Cooler Form 3-08

1 Cooler temperature upon receipt IR GUN # 13 3M CF 4.5 +0.0 °C Observed Cooler Temp 38 °C Corrected Cooler Temp 43 °C
 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LIHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA
 4. Did custody papers accompany the sample(s)? Yes No NA
 5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA
 7 Did all bottles arrive in good condition (Unbroken)? Yes No NA
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA
 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA
 10 Were correct bottle(s) used for the test(s) indicated? Yes No NA
 11 Sufficient quantity received to perform indicated analyses? Yes No NA
 12 Are these work share samples and all listed on the COC? Yes No NA
 13 If yes, Questions 13-17 have been checked at the originating laboratory
 14 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# H0316719
 15 Were all VOAAs on the COC? Yes No NA
 16 Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this. HC 329089
 17 Was a LIHg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19 SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory
 Time preserved. _____ Preservative(s) added/Lot number(s) _____
 VOA Sample Preservation - Date/Time VOAs Frozen. _____

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

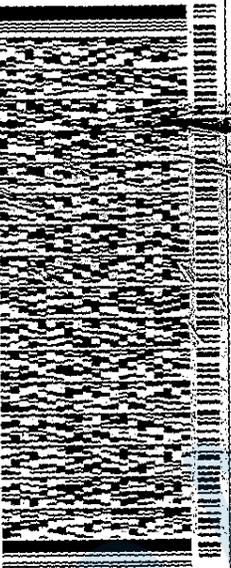
SHIP DATE 07HR24
 WEIGHT 39.95 LB
 CAD 0618092/CAFE3803
 BILL SENDER

SHIP TO / RECEIVING
 EUROPEAN ENVIRONMENT TESTING NORTH
 180 S. VAN BUREN AVENUE

BARBERTON OH 44203

(330) 497
 PO: 155

9875 8460-179447

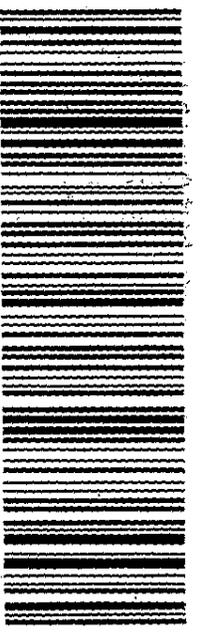


TRK# 6553 1011 3196
 0201

FRI - 08 MAR 10:30A
 PRIORITY OVERNIGHT

NX CAKA

44203
 OH-US CLE



Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-299487-1

Login Number: 299487

List Number: 1

Creator: Casallas, Angela C

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Supplemental Remedial Investigation (SRI) Report (SRIR)
12 Franklin Street, Brooklyn, New York

APPENDIX B

Site-wide Manual Gauging Data, LevelTroll Raw Data and
Groundwater Elevation Graphs

DRAFT

Table 1. Summary of Manual Gauging Events, 12 Franklin Street, Brooklyn, New York

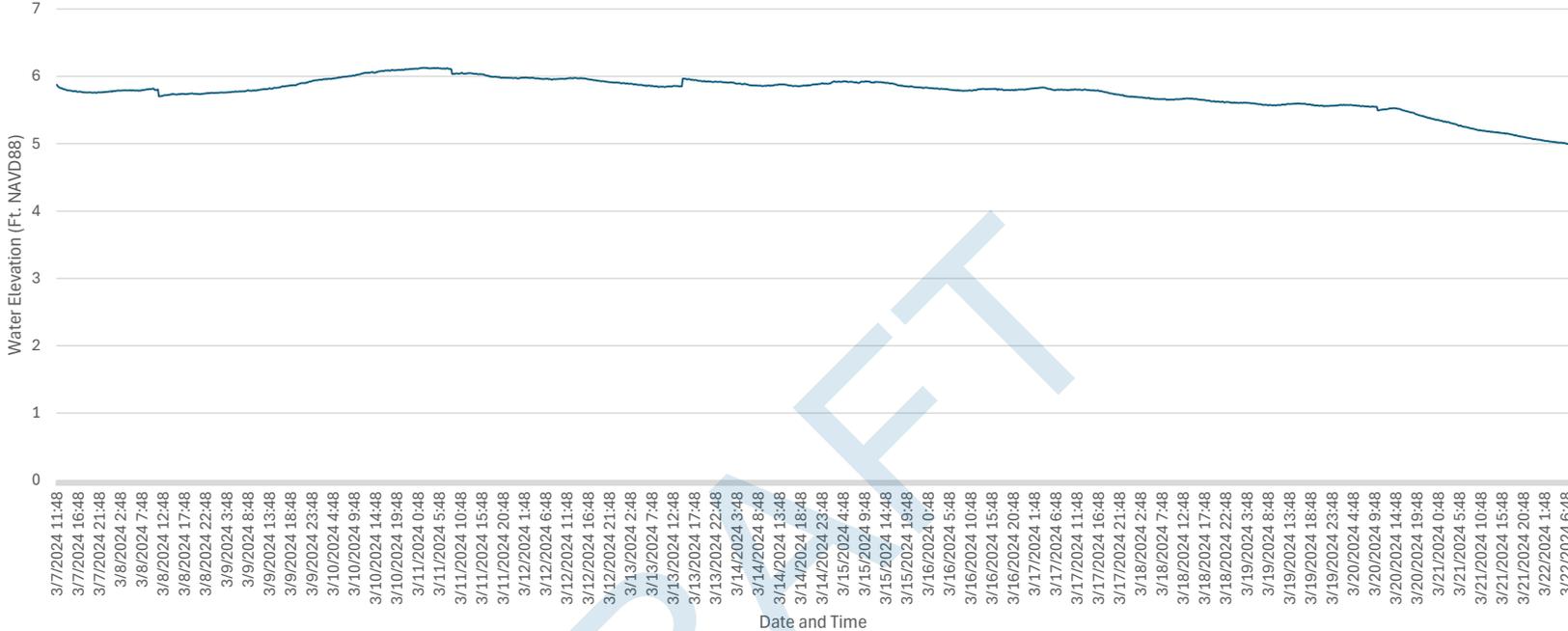
3/7/2024						
Well ID	Time	DTP (Ft)	DTW (Ft)	DTB (Ft)	Well Elevation (NAVD88)	CDTW (Ft NAVD88)
MW-04	7:55	--	3.68	15.45	8.87	5.19
MW-05	7:35	--	8.85	14.96	10.84	1.99
MW-06	8:02	--	4.51	13.95	8.83	4.32
MW-07	7:42	--	8.66	14.77	10.7	2.04
MW-08	8:14	--	3.75	11.96	9.23	5.48
MW-09	8:22	--	1.79	14.74	9.26	7.47
MW-10	8:27	--	8.22	14.84	10.26	2.04
MW-11	8:18	--	3.04	14.26	8.97	5.93

3/22/2024						
Well ID	Time	DTP (Ft)	DTW (Ft)	DTB (Ft)	Well Elevation (NAVD88)	CDTW (Ft NAVD88)
MW-04	9:25	--	4.52	15.45	8.87	4.35
MW-05	9:15	--	8.95	14.96	10.84	1.89
MW-06	8:33	--	4.78	13.95	8.83	4.05
MW-07	8:20	--	8.77	14.77	10.7	1.93
MW-08	9:35	--	4.83	11.96	9.23	4.4
MW-09	8:42	--	3.01	14.74	9.26	6.25
MW-10	9:50	--	8.35	14.84	10.26	1.91
MW-11	9:42	--	5.26	14.26	8.97	3.71

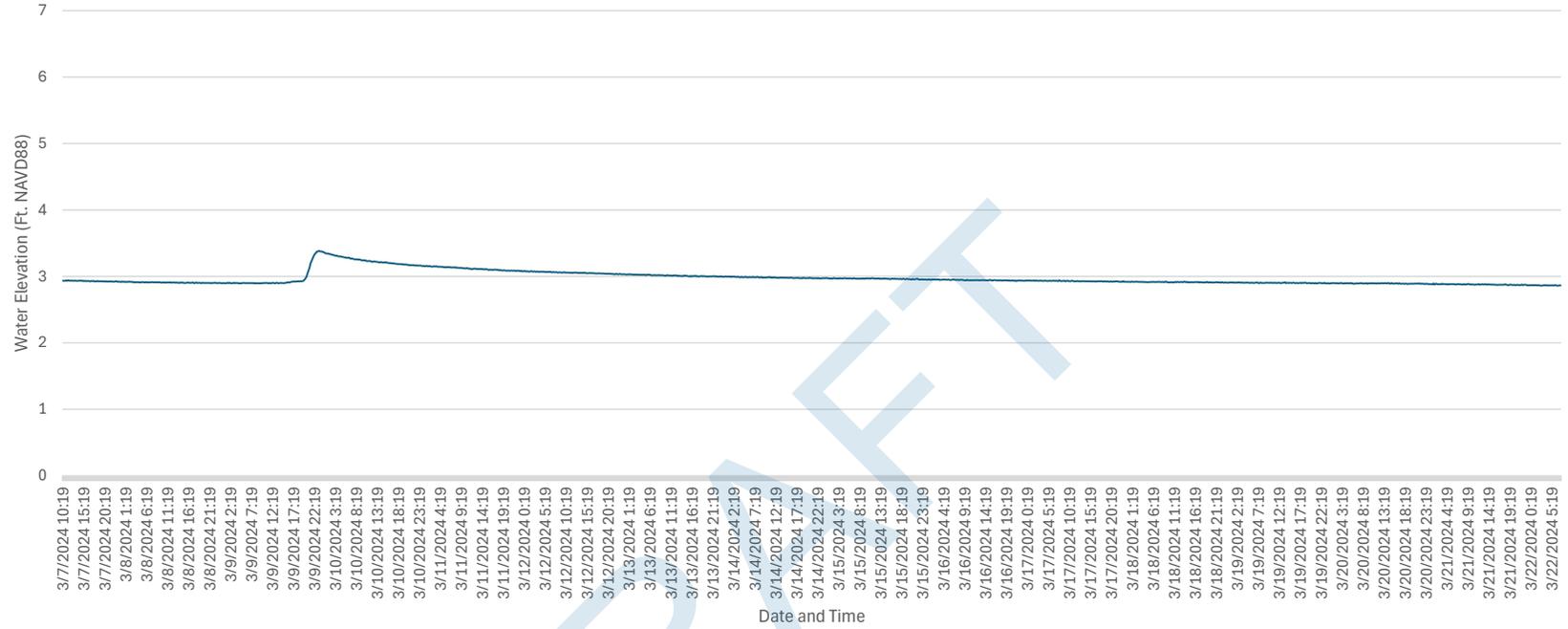
Notes:

- DTP - Depth to Product
- DTW - Depth to Water
- DTB - Depth to Bottom
- CDTW - Corrected Depth to Water
- Ft - Feet

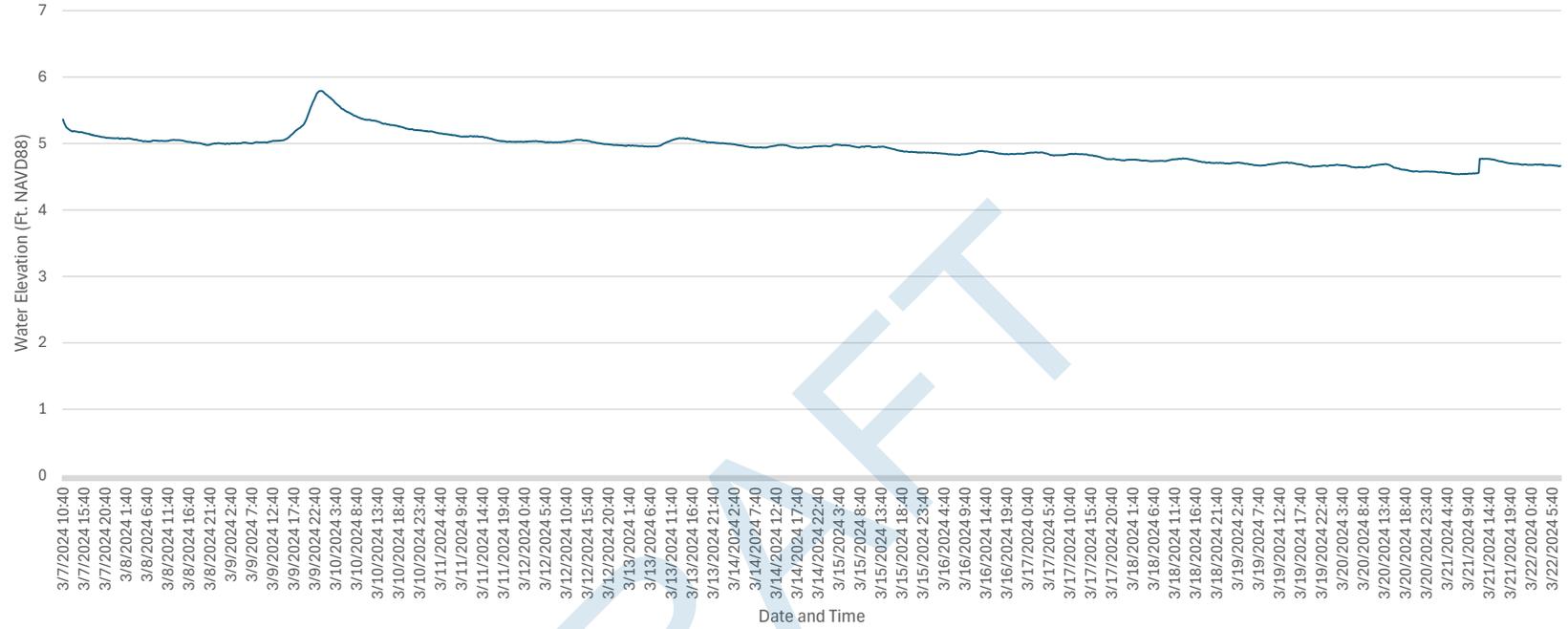
MW-04 Water Elevation



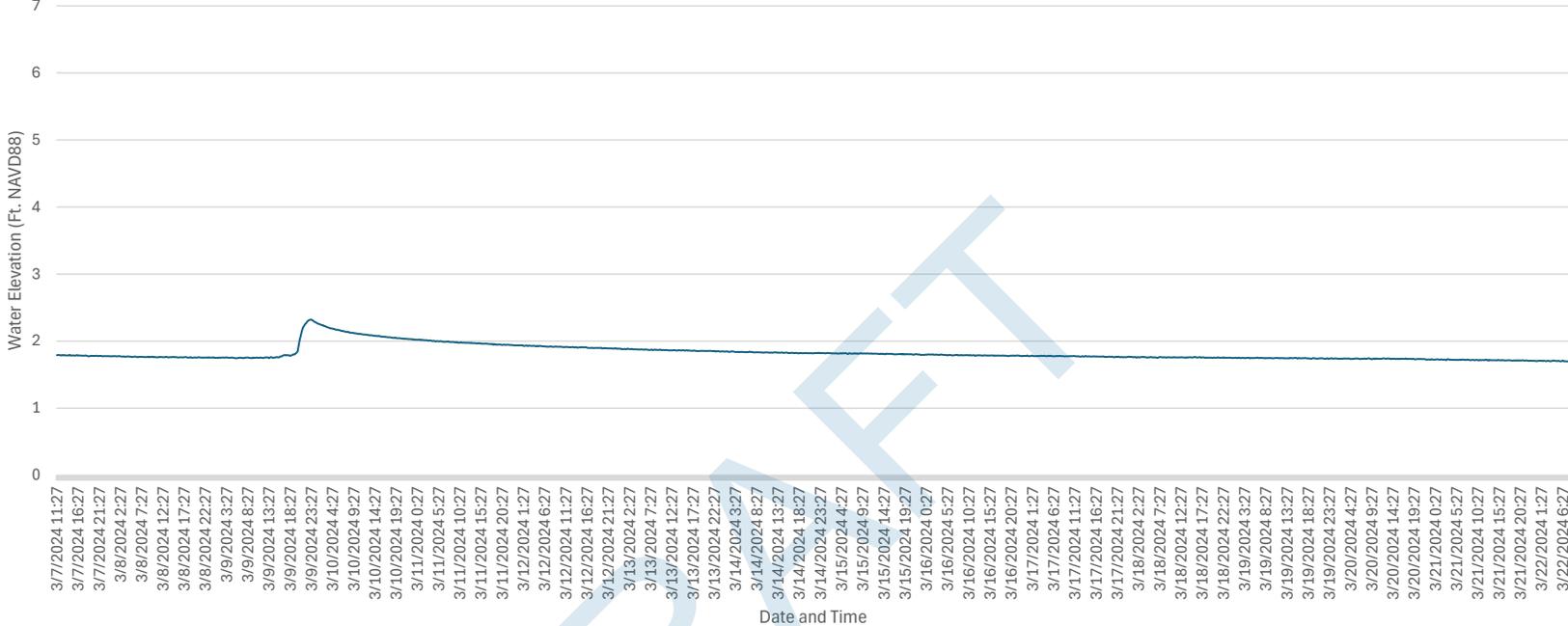
MW-05 Water Elevation



MW-08 Water Elevation



MW-10 Water Elevation



DRY FET

MW-11 Water Elevation

