

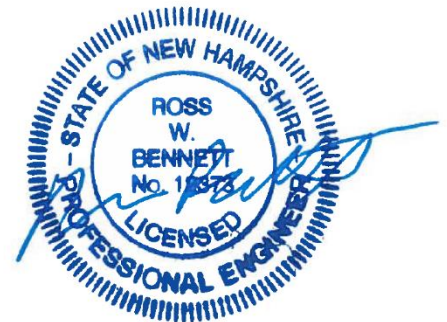
**DES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095**

**2022 Stormwater and Surface Water Monitoring
Report**

**Saint-Gobain Performance Plastics Facility
701 Daniel Webster Highway
Merrimack, New Hampshire 03054
NHDES Site No.: 199712055
Project Number: 36430**

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Date of Report: February 17, 2023



REPORT

2022 Stormwater and Surface Water Monitoring Report

*Saint-Gobain Performance Plastics
Merrimack, New Hampshire*

Submitted to:

New Hampshire Department of Environmental Services

Hazardous Waste Remediation Bureau
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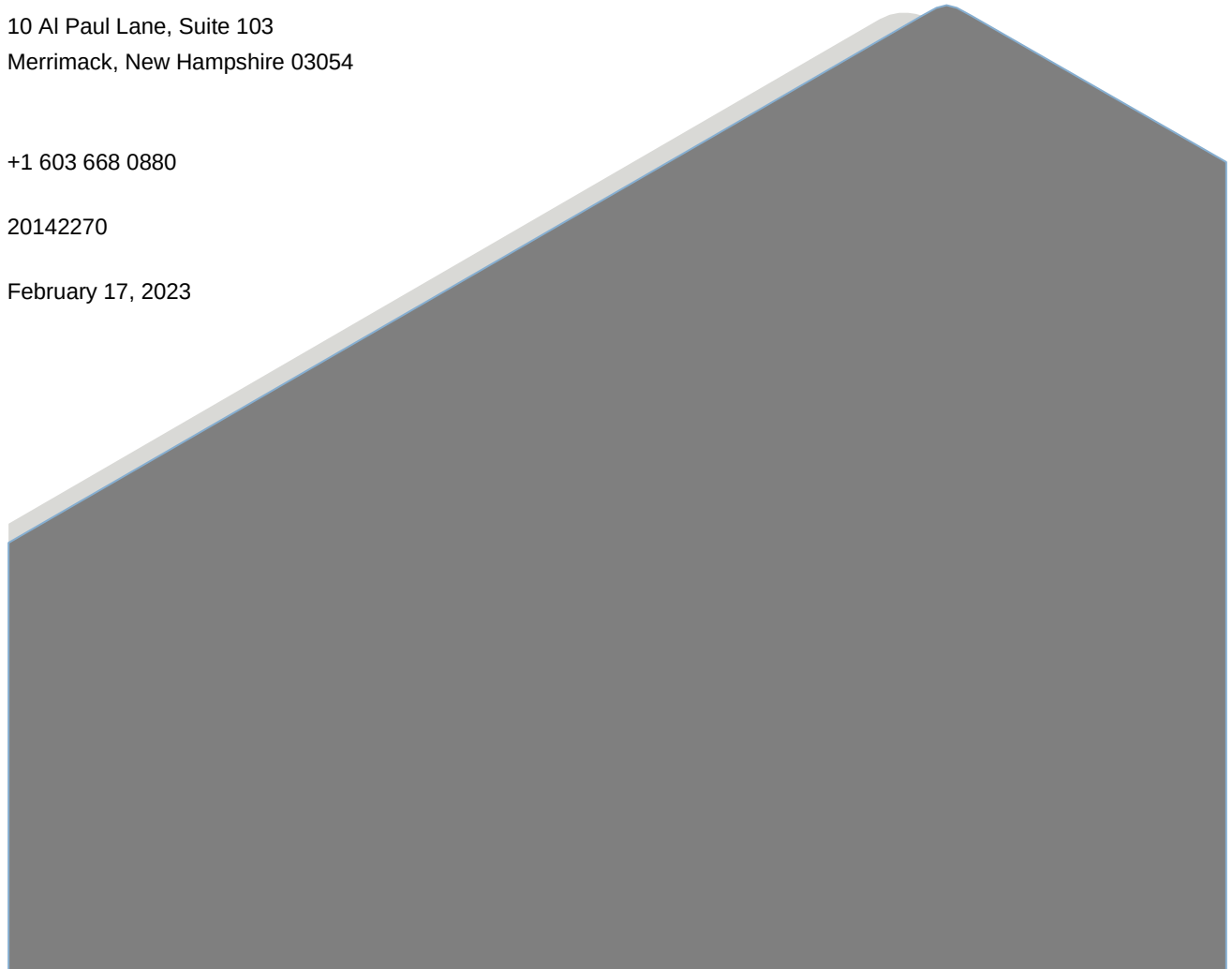


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1.0 INTRODUCTION

On behalf of Saint-Gobain Performance Plastics (SGPP), WSP USA Inc., formerly Golder Associates USA Inc. (WSP), prepared this report to summarize the results of the November 2022 stormwater and surface water monitoring event conducted at the SGPP facility (site or facility) located at 701 Daniel Webster Highway in Merrimack, New Hampshire (Figure 1).

On January 29, 2021, Golder Associates USA (Golder) submitted a 2021 Work Plan for Post-Regenerative Thermal Oxidizer (RTO) Stormwater and Surface Water Monitoring (2021 Work Plan; Golder, 2021) to the New Hampshire Department of Environmental Services (NHDES). The 2021 Work Plan included a wet-weather stormwater and surface water monitoring event to be conducted after post-RTO performance sampling is complete and RTO effectiveness is confirmed. NHDES approved the 2021 Work Plan, with comments, on August 13, 2021 (NHDES, 2021). NHDES confirmed the effectiveness of the RTO on May 6, 2022 (NHDES, 2022). The wet-weather monitoring event specified in the 2021 Work Plan was completed on November 11, 2022. This report provides a summary of:

- Background information for the stormwater conveyance system
- Timeline and discussion of the removal of former emission infrastructure from the roof, and other changes made to the roof or stormwater system since the submission of the Report on 2018 Stormwater and Surface Water Activities in March 2019 (Golder, 2019)
- Stormwater conveyance system monitoring activities (including rain gauge and flow meter data) since the RTO became operational
- Summary of the November 11, 2022 wet-weather monitoring event
- Discussion of the wet-weather monitoring results, including a discussion of the change in stormwater PFAS concentrations since the emission controls were installed, updates to the stormwater component of the conceptual site model, and recommendations.

2.0 BACKGROUND

The following sections provide an overview of the facility and site stormwater conveyance system, and a summary of previous stormwater conveyance system investigation activities.

2.1 Overview of Facility and Stormwater Conveyance System

General Electric (GE) developed the site property in 1971 and continued to operate at the location until approximately 1982. The GE-owned property consisted of approximately 170 acres located between Daniel Webster Highway and the Merrimack River, which included the existing 90,000-square-foot manufacturing building (referred to as the “Main Building”), several outbuildings, railway spurs, and a stormwater conveyance system which collects runoff from the developed portion of the property (Figure 2).

In 1984, Chemical Fabrics Corporation (Chemfab) purchased the property from GE and in 1987, sub-divided and sold approximately 150 acres of the wooded/predominantly-undeveloped land surrounding the facility. As part of the sale, an easement was established for the portions of the stormwater conveyance system located between the eastern Chemfab property boundary and the Merrimack River. In the mid- to late-1990s, Chemfab constructed a 55,000-square foot addition (referred to as the “New Manufacturing Building”) east of the facility’s Main Building; a portion of the stormwater conveyance system appears to have been reconfigured to accommodate the new construction. SGPP acquired Chemfab in 2000 and assumed ownership of the site.

The current stormwater conveyance system generally follows the layout of the system installed ca. 1971. The stormwater conveyance system receives runoff from the ground and from facility roofs (see Figure 2). Runoff from the roof of the Main Building flows to the stormwater conveyance system via roof drains plumbed inside the building. Runoff from the New Manufacturing Building flows to the stormwater conveyance system via two routes: from roof drains that are plumbed directly to the stormwater conveyance system, and from exterior downspouts that discharge to the paved ground surface to the east of the New Manufacturing Building, then to stormwater catch basins via surface flow. In addition, there are several swales west of the Main Building that direct over-land flow from off-site areas and the western part of the property toward catch basins located north and south of the Main Building.

The stormwater conveyance system for the site consists of two main “branches” that collect stormwater to the north and south of the Main Building/New Manufacturing Building, as shown on Figure 2. The north and south branches of the system join southeast of the Main Building at manhole MH-29, and the combined flow discharges to the Merrimack River at Outfall 001 under National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) number NHR053097, which expires on February 28, 2026. This outfall is the only outfall associated with the SGPP facility, and no other outfalls associated with the facility are known to exist.

Start-up of the RTO occurred on July 14, 2021 and decommissioning of the stacks on the rooftop was completed by September 2021. Drain inlet DI-34 was decommissioned during construction of the RTO.

2.1.1 Previous Stormwater Conveyance System Investigation Activities

Golder completed sampling of stormwater and surface water in 2017 and 2018, as documented in the following reports:

- Stormwater and Surface Water Investigation Summary Report: Saint-Gobain Performance Plastics, Merrimack, New Hampshire. (Golder, 2018a)
- Stormwater and Surface Water Investigation Summary Report Addendum. (Golder 2018b)
- The Stormwater and Surface Water Activities Report (Golder, 2019).

A preliminary conceptual site model (CSM) for stormwater and surface water was presented in Section 7.5 of the Supplemental Site Investigation Report (Golder, 2020), which is updated in Section 5.6 below.

3.0 STORMWATER CONVEYANCE SYSTEM MONITORING AND MAINTENANCE

This section summarizes activities completed as part of the stormwater conveyance system monitoring prior to and during the November 11, 2022 sampling event. The location of catch basins, drainage structures, and the stormwater conveyance piping configuration is depicted on Figure 2. The surface water monitoring location are shown on Figure 3.

3.1 Precipitation Monitoring

Golder installed a tipping-bucket rain gauge at the facility in 2021 to collect site-specific precipitation measurements. Golder collected site-specific precipitation data between May 4, 2021 and December 7, 2021 when the gauge was then removed for the winter. In 2022, WSP collected site-specific precipitation data between March 17 and November 15 when the gauge was again removed for the winter. Figures 4A and Figure 4B present a graphical plot of the daily and cumulative site-specific precipitation data for 2021 and 2022, respectively. Cumulative precipitation data obtained for the Manchester-Boston Regional Airport is also

presented on these figures for comparison. The site-specific and Manchester-Boston Regional Airport precipitation data sets compare favorably.

3.2 Flow Monitoring

Flow Assessment Services, LLC (Flow Assessment) installed a flow meter consisting of an ultrasonic depth sensor, pressure depth sensor, and velocity sensor approximately 10 feet downstream of manhole MH-29. Flow Assessment provided data quality review and regularly visited the site to verify flow readings. Figure 5 presents a plot of daily cumulative stormwater flow for 2021 and 2022. A plot of cumulative rainfall and stormwater flow since RTO start-up (July 14, 2021) is included on Figures 5 and 6.

4.0 NOVEMBER 2022 WET-WEATHER EVENT

WSP completed the wet-weather sampling event on November 11, 2022. Sample collection times and field parameters are shown on Table 1. The field parameters and observations from the outfall prior to and during sampling are presented on Table 2. Site precipitation, stormwater flow, and sample collection times are presented on Figure 7.

The following presents a chronology of the November 2022 sampling event and key observations:

- Ca 15:20: Sampling personnel arrived on-Site, completed safety briefing and mobilized to sample locations.
- 16:20: The outfall sampling team arrived at outfall, observed light rain. Dry-weather flow (dripping) was observed at the outfall at a rate of approximately 0.026 gallons per minute (gpm).
- 17:40: First flush observed at roof drains. Sampling of roof drains and of ponded water on the roof was completed between 17:40 and 18:35. Cumulative rainfall at the time of these samples was between 0.01 and 0.03 inches.
- 18:15: First flush observed at outfall. Cumulative rainfall at this time was 0.02 inches. Flow increased rapidly from 0.026 gpm to 16 gpm over a few seconds. Flow was clear, no odor.
- 19:05: Early storm samples collected at the Outfall and surface water sample locations. Cumulative rainfall was 0.03 inches. Outfall flow was approximately 16¹ gpm.
- 19:45: Late storm samples collected at the roof drain, Outfall and surface water sample locations. Cumulative rainfall was 0.07 inches. The DMH-29 flow meter recorded stormwater flow of approximately 120 gpm, flow could not be measured at the outfall.
- 20:20 to 20:45: Late storm samples collected from ponded water on the roof. Cumulative rainfall was 0.12 to 0.20 inches.
- 20:25 and 20:55: Late storm samples collected at Outfall. Cumulative rainfall was 0.14 and 0.22 inches. The DMH-29 flow meter recorded stormwater flow of between approximately 270 and 480 gpm, flow could not be measured at the outfall.

¹ The stormwater flow measurements presented on Figure 7 were measured downstream of MH-29 which is located over 300 ft upstream of the outfall. Because of the distance between MH-29 and the outfall, changes in flow may be observed at the flow meter prior to observation at the outfall.

The work plan specified collection of a fourth late-storm sample from the outfall. Based on the evening weather forecast, WSP planned to return in the morning to collect the fourth late-storm sample from the outfall. However, the storm ended earlier than forecast, and the fourth late-storm sample could not be collected in the morning.

5.0 DISCUSSION OF RESULTS

Analytical results from the November 2022 sampling event and past wet-weather sampling events are presented on Table 3. The laboratory analytical report for the November 2022 sampling event is included in Appendix A. The following sections include a comparison of the 2018 wet-weather analytical results (pre-emissions controls) to the November 2022 analytical results (post-emissions controls installation).

5.1 Ponded Water Samples

WSP collected samples from four ponded water locations on the main building roof as shown on Figure 2. Perfluorooctanoic acid (PFOA) was detected at concentrations between 79 ng/L and 7,000 ng/L in first flush samples, and between 5.4 ng/L and 130 ng/L in late-storm samples. The ponded water sample locations were not sampled in 2018.

5.2 Roof Drain Samples

The following table summarizes PFOA concentrations in 2018 and 2022 roof drain samples:

Sample Date	Sample Timing	Cumulative Rainfall (inches)	RD-MB-NE	RD-MB-NW	RD-MB-SE	RD-MB-SW	RD-NMB
9/10/2018	First Flush	0.01-0.04	52000	11000	1400	1400	4300
11/11/2022	First Flush	0.01-0.03	3700	920	310	480	400
11/11/2022	Late Storm	0.07	1400	150	37	32	130
% Difference, 2022 first flush vs 2018 first flush			-93%	-92%	-78%	-66%	-91%
% Difference, 2022 late storm vs 2022 first flush			-62%	-84%	-88%	-93%	-68%

The maximum PFOA concentration detected in first-flush roof drain samples was 3,700 ug/L in November 2022 and 52,000 ug/L in 2018. Comparison of the 2018 and 2022 first flush samples indicates a decrease in PFOA concentrations ranging from approximately 66% to 93%. The locations with the highest percent decreases are the two locations on the northern side of the roof (93% in RD-MB-NE and 92% in RD-MB-NW).

PFOA was detected at lower concentrations (32 ng/L to 1,400 ng/L) in late-storm samples collected from the roof drains. The 2022 late-storm results show a 62% to 93% decrease in PFOA concentration relative to the 2022 early-storm roof drain samples.

The concentrations of other PFAS compounds generally decreased in 2022 results compared to 2018, except for some increases in longer-chain carboxylates (Perfluorotridecanoic Acid (PFTriA), Perfluorotetradecanoic acid (PFTA)) and NEtFOSAA in some the 2022 first flush samples.

5.3 Outfall Samples

The following table summarizes PFOA concentrations in 2018 and 2022 wet-weather outfall samples:

Sample Date	Sample Timing	Cumulative Rainfall (inches)	PFOA (ng/L)	% Reduction, Relative to 9/10/18 7:15 pm Sample
6/4/18 5:50 AM	First Flush ²	0.06	2200	NA
9/10/18 5:05 PM	First Flush ²	0.01	2500	NA
9/10/18 7:15 PM (FD)	Late Storm	0.08	9400	NA
9/10/18 7:15 PM	Late Storm	0.08	7900	NA
11/13/18 7:55 AM	Late Storm	0.82	470	NA
11/11/22 7:05 PM	Early Storm	0.03	920	-90%
11/11/22 7:45 PM	Late Storm	0.07	640	-93%
11/11/22 8:25 PM	Late Storm	0.14	220	-98%
11/11/22 8:55 PM	Late Storm	0.22	130	-99%

Prior to installation of emissions controls, PFOA was detected at concentrations between 2,200 ng/L and 9,400 ng/L in wet-weather samples collected from the Outfall. In November 2022, PFOA was detected at lower concentrations of 920 ng/L in the early storm outfall sample and between 130 to 640 ng/L in the late-storm outfall samples, which represents a greater than 90% decrease in PFOA concentration relative to the September 2018 late-storm sample³.

PFOA concentrations in the November 2022 late-storm samples decreased from 640 ng/L (7:45 pm) to 130 ng/L (8:55 pm), which represents an up to 99% decrease in PFOA concentration relative to the September 2018 late-storm results.

5.4 Merrimack River Surface Water Samples

Early and late storm Merrimack River surface water samples were collected from two locations in November 2022: SW-MERR-101W located upstream of the outfall, and SW-MERR-202W located downstream of the outfall.

PFAS were detected at low concentrations (less than 2.5 ng/L) in all November 2022 surface water samples. PFAS concentrations collected from downstream sample (SW-MERR-202W) were generally similar to or lower than the sample collected upstream of the outfall (SW-MERR-101W). For example, PFOA was detected at 2.4 and 2.5 ng/L in upstream samples from SW-MERR-101W, but was detected at slightly lower concentrations of 1.9 and 2.1 ng/L in downstream samples from SW-MERR-202W. These results indicate PFAS concentrations do not increase as a result of stormwater flow from the outfall.

The November 2022 PFAS analytical results for Merrimack River surface water are also generally similar to or lower than PFAS analytical results for samples collected in 2017 and 2018.

² First flush wet-weather samples were collected in 2018 following procedures specified by NHDES as outlined in the work plan. However, it is WSP's opinion that the first flush samples collected from Outfall 001 are not representative of stormwater conditions. The first flush samples collected in 2018 at Outfall 001 at the beginning of low-intensity storms are considered more representative of dry-weather flow that was not completely flushed from the stormwater conveyance system at the time of sample collection.

³ The 2018 "late-storm" samples were collected after a similar cumulative precipitation (0.08 inches) compared to the 2022 samples (0.03 to 0.22 inches).

5.5 Overall Conclusions

The results of post-RTO stormwater sampling in November 2022 indicate that:

- PFAS concentrations in samples collected from the building roof drains and the outfall are lower after installation of the RTO and removal of the rooftop emissions points.
- PFOA concentrations in 2022 first flush samples were 90% lower at the outfall and up to 93% lower in roof drain samples relative to comparable samples collected in 2018.
- Wet-weather flow that enters the Merrimack River at Outfall 001 does not result in a detectable change in PFAS concentrations in Merrimack River surface water downstream of the outfall.

5.6 Stormwater Conceptual Site Model

A preliminary CSM for stormwater and surface water was presented in Section 7.5 of the Supplemental Site Investigation Report (Golder, 2020). The CSM for wet-weather stormwater is updated below:

Stormwater Conveyance System and Nearby Merrimack River - Wet-weather flow:

- PFAS were detected in samples collected from the facility stormwater conveyance system under wet-weather conditions prior to installation of the RTO and removal of the rooftop emissions points.
- PFAS concentrations in samples collected from building roof drains and outfall wet-weather flow are lower in samples collected after installation of the RTO and removal of the rooftop emissions points. PFOA concentrations in 2022 first flush samples were 90% lower at the outfall and up to 93% lower in roof drain samples relative to comparable samples collected in 2018.
- The concentrations of PFAS in Outfall 001 under wet-weather first flush conditions were similar to concentrations detected under dry-weather conditions, and lower than PFAS concentrations detected in upstream manhole samples (i.e., MH-5 and MH-23). The first flush samples collected in 2018 at Outfall 001 at the beginning of low-intensity storms are considered more representative of dry-weather flow that was not completely flushed from the stormwater conveyance system at the time of sample collection.
- PFAS concentrations were lower in the wet-weather samples collected later in the storm compared to the 2018 first flush or 2022 early-storm samples indicating that the concentrations observed under first flush or early-storm conditions are not representative of PFAS concentrations during longer duration, higher intensity storm events.
- PFAS concentrations in samples collected from the Main Building roof drains are the highest concentrations detected during the wet-weather sampling events. Therefore, run-off from the north end of the Main Building and the New Manufacturing Building is considered the primary source of higher PFAS detections in samples collected in downstream stormwater samples. However, PFAS were also detected in wet-weather samples collected in 2018 from locations that do not receive flow from the roof drains. Therefore, run-off from the building roofs is not the only source of PFAS in wet-weather stormwater flow. Results from 2018 stormwater samples collected from portions of the stormwater conveyance network not associated with the roof drains indicated that other potential sources of PFAS to stormwater were present, including runoff or leaching of surficial soils, commercial properties along Daniel Webster Highway, and/or groundwater infiltration.
- Wet-weather flow that enters the Merrimack River at Outfall 001 does not result in a detectable change in PFAS concentrations in Merrimack River surface water downstream of the outfall.

5.7 Next Steps

These results and the revised stormwater CSM will be incorporated into the Remedial Action Plan which is due to NHDES on May 5, 2023.

6.0 CLOSING

The undersigned are the principal authors of this Report. Should you have any questions regarding this document, please contact Ross Bennett at (603) 668-0880.

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7.0 REFERENCES

Golder, 2018a. Stormwater and Surface Water Investigation Summary Report: Saint-Gobain Performance Plastics, Merrimack, New Hampshire. January 30, 2018.

Golder 2018b. Stormwater and Surface Water Investigation Summary Report Addendum. April 20, 2018.

Golder, 2019. Report on 2018 Stormwater and Surface Water Activities: Saint-Gobain Performance Plastics, Merrimack, New Hampshire. March 15, 2019

Golder, 2020. Supplemental Site Investigation Report: Saint-Gobain Performance Plastics, Merrimack, New Hampshire. October 14, 2020.

Golder, 2021. 2021 Stormwater and Surface Water Sampling Work Plan: Saint-Gobain Performance Plastics, Merrimack, New Hampshire. January 29, 2021.

NHDES, 2022. Letter re: Regenerative Thermal Oxidizer Compliance Testing. May 6, 2022.

Tables

Table 1: Sample Water Quality Parameters - November 11, 2022

STATION / SAMPLE ID	DATE	TIME	TEMP	DO	COND	PH	TURBIDITY	ORP	COMMENTS
	mm/dd/yyyy	hr:min	Celsius	mg/L	us/cm	s.u.	NTU	mV	
RP-1	11/11/2022	17:40	17.1	8.72	114	6.41	11.1	292.7	First Flush
RP-2	11/11/2022	18:00	17.3	8.42	86.2	6.26	4.05	264.4	First Flush
RP-3	11/11/2022	18:15	17	8.65	78.7	6.25	3.79	257.5	First Flush
RP-4	11/11/2022	18:35	16.7	9.29	30.4	6.18	2.33	264.1	First Flush
RP-1	11/11/2022	20:20	16.9	9.35	5.5	6.44	4.9	267.4	Late Storm
RP-2	11/11/2022	20:25	16.8	9.38	6.6	6.37	6.27	275.6	Late Storm
RP-3	11/11/2022	20:35	16.9	9.32	3.8	6.24	3.23	280.1	Late Storm
RP-4	11/11/2022	20:45	16.8	9.39	3.2	6.24	3.34	287.5	Late Storm
RD-MB-SW	11/11/2022	17:40	20.9	8.98	80	5.43	51.81	218.6	First Flush
RD-MB-SW	11/11/2022	19:45	19.5	9.59	12.8	5.62	-	212.7	Late Storm
RD-MB-SE	11/11/2022	17:50	19.1	9.21	63.8	5.49	70.04	168.07	First Flush
RD-MB-SE	11/11/2022	19:45	19.5	9.42	85	5.73	2	209.1	Late Storm
RD-MB-NW	11/11/2022	17:40	19.9	9.02	44.3	5.52	32.76	230.6	First Flush
RD-MB-NW	11/11/2022	19:45	17.1	9.58	22.6	5.82	2	199.3	Late Storm
RD-NMB	11/11/2022	17:40	17.8	9.46	23.1	4.73	81.1	233.2	First Flush
RD-NMB	11/11/2022	19:45	17.6	9.58	6.0	5.61	2	189.8	Late Storm
RD-MB-NE	11/11/2022	17:40	19.7	9.05	147.3	4.83	502.2	248	First Flush
RD-MB-NE	11/11/2022	19:45	17.5	9.45	22.8	5.75	2	201.8	Late Storm
Outfall-001	11/11/2022	19:05	13.2	9.38	85.4	5.61	3.69	202.7	Early Storm
Outfall-001	11/11/2022	19:45	13.9	9.89	57.5	5.62	9.52	187.9	Late Storm
Outfall-001	11/11/2022	20:25	15.6	9.65	18.5	5.57	23.91	201.3	Late Storm
Outfall-001	11/11/2022	20:55	16	9.62	12.3	5.8	17.23	205.3	Late Storm
SW-MERR-101W	11/11/2022	19:05	11	10.38	122.6	4.22	0.08	497.8	Early Storm
SW-MERR-101W	11/11/2022	19:45	11.1	9.37	122.3	5.01	0.27	20.2	Late Storm
SW-MERR-202W	11/11/2022	19:05	12.6	10.3	165.8	6.5	0.63	285.8	Early Storm
SW-MERR-202W	11/11/2022	19:45	12.3	10.42	126.4	6.68	0.53	265.2	Late Storm

Notes:

ft/s: Feet per second

mg/L: Milligrams per liter

us/cm: Microsiemens per

s.u.: Standard pH unit

NTU: Nephelometric Turbidity unit

mV: Millivolts

Prepared by: RO

Checked by: CCC

Reviewed by: RWB

Table 2: Outfall Parameters and Observations - November 11, 2022

DATE	TIME	TEMP	DO	COND	pH	ORP	TURBIDITY	AIR TEMP	OBSERVATIONS
mm/dd/yyyy	hr:min	°C	mg/L	us/cm	s.u.	mV	NTU	°C	
11/11/2022	16:20	16.2	9.49	129.6	6.64	218.2	12.37	-	100 ml/min - dripping (0.026 gpm)
11/11/2022	16:50	15	9.66	93.4	6.35	183.4	20.03	15.8	-
11/11/2022	17:20	14.8	9.67	86.8	6.05	176.5	30.26	16.4	100 ml/min - dripping
11/11/2022	17:25	14.4	9.81	85.5	6.41	176.3	11.36	-	-
11/11/2022	18:15	-	-	-	-	-	-	-	First flush flow observed at outfall - 1 liter/second (16 gpm). Flow increased rapidly from 100 ml/min to 1 L/s over the course of a couple seconds, was not a gradual increase. Flow was clear, no odor.
11/11/2022	18:20	15.8	9.55	71.3	6.30	179.9	10.17	15.7	1 L/second
11/11/2022	18:25	13.5	9.54	69.8	6.03	185.7	6.23	14.3	-
11/11/2022	18:30	13.4	9.60	53.3	5.87	190.7	5.2	13.8	-
11/11/2022	18:35	13.4	9.51	53.7	5.73	194.3	5.11	-	-
11/11/2022	18:40	13	9.37	69.7	5.67	199.3	4.39	-	-
11/11/2022	18:45	13.4	9.28	73.2	5.62	201.2	3.68	-	-
11/11/2022	19:00	13.3	9.22	82.5	5.56	206.3	4.06	-	-
11/11/2022	19:05	13.2	9.38	85.4	5.61	202.7	3.69	-	Early storm Outfall sample. Clear, no odor.
11/11/2022	19:10	13.2	9.5	86.7	5.63	199.1	3.69	-	-
11/11/2022	19:15	13.1	9.61	86.9	5.65	194.4	3.53	-	-
11/11/2022	19:20	13.2	9.77	83.3	5.71	180	3.98	-	-
11/11/2022	19:25	13.2	9.91	80.8	5.66	185	8.05	-	-
11/11/2022	19:35	-	-	74.3	-	-	5.27	-	-
11/11/2022	19:40	13.6	9.89	65.3	5.63	188.2	7.99	-	-
11/11/2022	19:45	13.9	9.89	57.5	5.62	187.9	9.52	-	Late storm sampling of outfall. Clear, no odor.
11/11/2022	19:50	14.3	9.79	50.6	5.55	190.3	10.96	-	-
11/11/2022	19:55	14.6	9.75	43.6	5.56	192.3	15.21	-	-
11/11/2022	20:10	15.2	9.72	28.9	5.68	193.8	13.88	-	-
11/11/2022	20:15	15.3	9.7	25.6	5.59	197.3	17.05	-	-
11/11/2022	20:20	15.4	9.68	22	5.57	199	10.8	-	-
11/11/2022	20:25	15.6	9.65	18.5	5.57	201.3	23.91	-	Late storm outfall sample. Clear, no odor.
11/11/2022	20:40	15.9	9.65	14.7	5.71	203.5	20.12	-	-
11/11/2022	20:50	16	9.63	12.7	5.75	204.9	18.49	-	-
11/11/2022	20:55	16	9.62	12.3	5.8	205.3	17.23	-	Late storm outfall sample. Clear, no odor.

Notes:

GPM: Gallon per minute

°C: degrees Celsius

mg/L: Milligrams per liter

us/cm: Microsiemens per centimeter

s.u.: Standard pH Unit

mV: Millivolts

NTU: Nephelometric Turbidity unit

ml/min: Milliliter per min

Table 3: Stormwater and Surface Water Wet-Weather Analytical Results Summary

					Perfluorobutanoic acid (PFBA)		Perfluoropentanoic acid (PFPeA)		Perfluorohexanoic acid (PFHxA)		Perfluoroheptanoic acid (PFHpA)		Perfluorooctanoic acid (PFOA)		Perfluorononanoic acid (PFNA)		Perfluorodecanoic acid (PFDA)		Perfluoroundecanoic Acid (PFUnA)		Perfluorododecanoic acid (PFDoA)		Perfluorotridecanoic Acid (PFTriA)		Perfluorotetradecanoic acid (PFTA)		Perfluorobutanesulfonic acid (PFBS)		Perfluoropentanesulfonic acid (PFPeS)		Perfluorohexanesulfonic acid (PFHxS)		Perfluoroheptanesulfonic acid (PFHpS)		Perfluorooctanesulfonic acid (PFOS)			
Location	Sample Date	Sample Timing	Sample Type	Validated (Y/N)																																		
RP-1	11/11/2022 5:40:00 PM	FF	N	N	170		110		320		150		660		37		64		23		20		11		15		0.42	U	0.42	U	2.2		0.42	U	45			
	11/11/2022 8:20:00 PM	LS	N	N	1.6	U	3.2		8.6		4.7		33		2.5		3.9		1.4	J	2.7		1.9		4.6		0.45	J	0.41	U	0.41	U	7.4					
RP-2	11/11/2022 6:00:00 PM	FF	N	N	200		240		710		380		1200		140		250		110		140		39		28		8.9		0.49	U	2.9		0.49	U	41			
	11/11/2022 8:25:00 PM	LS	N	N	9.1		13		44		24		130		16		37		14		24		12		15		1.2	J	0.41	U	0.41	U	8					
RP-3	11/11/2022 6:15:00 PM	FF	N	N	230		420		1300		1800		7000		190		180		89		94		55		68		14	J	17		72		19		1900			
	11/11/2022 8:35:00 PM	LS	N	N	2	J	2		5.9		8.1		71		2.1		3.6		3		6.6		6.3		9.5		0.41	U	0.41	U	0.53	J	0.41	U	29			
RP-4	11/11/2022 6:35:00 PM	FF	N	N	22		6.1		27		13		79		3.6		5.6		1.3	J	1.4	J	0.54	J	0.97	J	0.56	J	0.43	U	0.92	J	0.43	U	11			
	11/11/2022 8:45:00 PM	LS	N	N	1.7	U	0.93	J	2.8		1.9		5.4		0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.83	U				
RD-MB-NE	9/10/2018 5:42:00 PM	FF	N	Y	10000		17000		39000		28000		52000		570		390		170		150		61		44		540	J	310	J	1000		90		6300			
	11/11/2022 5:40:00 PM	FF	N	N	210		250		690		600		3700		100		160		74		120		68		110		3.7	T	4.8		22		3.6		660			
	11/11/2022 7:45:00 PM	LS	N	N	33		56		200		220		1400		38		46		19		27		7.4		10		2.4		2.2		10		2.4		310			
RD-MB-NW	9/10/2018 5:37:00 PM	FF	N	Y	5900		9700		23000		7800		11000		470		480		190		180		80		66		30	J	17	J	86		14		900			
	11/11/2022 5:40:00 PM	FF	N	N	140		150		450		240		920		75		120		48		70		29		24		9.5	J	5	U	5	U	5	U	46			
	11/11/2022 7:45:00 PM	LS	N	N	18		24		58		31		150		8.7		21		10		19		8.9		11		0.68	J	0.47	U	0.47	U	0.47	U	6.7			
RD-MB-SE	9/10/2018 5:58:00 PM	FF	N	Y	1100		2100		3400		1600		1400		72		65		24		17		6.7		5.4		22	J	16	J	56		15		930			
	11/11/2022 5:50:00 PM	FF	N	N	100		79		140		77		310		11		16		5.2		5.1		2		2.9		0.44	U	0.44	U	2.1		0.44	U	38			
	11/11/2022 7:45:00 PM	LS	N	N	5.4		6.2		15		7.5		37		1.7	J	3		1.1	J	2.9		0.98	J	1.7	J	0.45	U	0.45	U	0.45	U	0.45	U	7.2			
RD-MB-SW	9/10/2018 5:25:00 PM	FF	N	Y	1300		1900		3900		2100		1400		87		81		35		28		9.4		5.7		1.5	UJ	2	UJ	14		4.3	J	320			
	11/11/2022 5:40:00 PM	FF	N	N	97		77		230		130		480		20		19	J	5	U	7.9	J	5	U	5	U	5	U	5	U	5	U	5	U	17	J		
	11/11/2022 7:45:00 PM	LS	N	N	5.3		5		13		8.2		32		1.8		2.4		0.96	J	1.6	J	0.53	J	1	J	0.46	U	0.46	U	0.46	U	0.46	U	1.8			
RD-NMB	9/10/2018 3:18:00 PM	FF	N	Y	1700		2400		6600		11000		4300		220		290		83		43		14		6.5		29		24		130		44		2200			
	11/11/2022 5:40:00 PM	FF	N	N	29		40		120		93		400		31		68		31		52		20		15		1.5	J	0.5	U	1.9	J	0.81	J	110			
	11/11/2022 7:45:00 PM	LS	N	N	14		20		47		30		130		7.7		14		7.1		11		5.1		4.4		0.65	J	0.46	U	0.53	J	0.46	U	31			
SGPP-OUTFALL-001	6/4/2018 5:50:00 AM	FF	N	Y	160		500		730		430		2200		23		9.9		4.6		7.4		4.1		3		8		6.6		21		2.5		140			
	9/10/2018 5:05:00 PM	FF	N	Y	140		490		740		420		2500		16		3.4		1.2	J	2.4		2.4		3.5		5.8		4.5		16		1.3	J	53	J		
	9/10/2018 7:15:00 PM	LS	FD	Y	1800		3000		6500		3700		9400		190		180		51		42		12	J	7.1	J	52		40		140		25		1800			
		LS	N	Y	1400		2800		5600		3100		7900		170		180		58		57		27	J	20	J	51	J	32	J	130		16		1600			
	11/13/2018 7:55:00 AM	LS	N	Y	30	J	48	J	99		65		470		5	J	7.7	U	3.4	U	4.3	U	3.4	U	2.6	U	2.6	U	3.4	U	3.4	U	3.4	U	38			
	11/11/2022 7:05:00 PM	ES	N	N	61		120		230		170		920		24		34		13		17		7.4		5.8		4.4		2.4		7		1.3	J	140			
	11/11/2022 7:45:00 PM	LS	N	N	48		79		170		130		640		23		37		14		22		13		12		2.9		1.1	J	4.3		0.98	J	110			
	11/11/2022 8:25:00 PM	LS	N	N	16		23		48		36		220		8.7		20		11		17		7.9		8.2		1.4	J	0.46	J	1.9		0.57	J	61			
SW-MERR-101W-NS	11/11/2022 8:55:00 PM	LS	N	N	6.8		11		23		16		130		4.6		8.5		4.3		6.8		2.9		3.2		1.1	J	0.49	J	1.3	J	0.4	U	40			
	11/16/2017 5:20:00 PM	NA	N	Y	5	U	2	J	2	J	1	J	4		0.7	U	1	U	1	U	0.7	U	0.7	U	0.7	U	0.8	J			1	U			2	U		
	6/4/2018 7:10:00 AM	NA	FD	Y	2	U	3.3	J	4.4		2.4		9.3	J	0.39	U	0.98	U	0.39	U	0.29	U	0.29	U	0.29	U	1.5	J	0.39	UJ	1	J	0.39	U	1.8	J		
		NA	N	Y	2	U	3.4	J	4.6		2.5		9.4	J	0.39	U	0.98	U	0.39	U	0.29	U	0.29	U	0.29	U	1.4	J	0.39	UJ	1	J	0.39	U	1.7	J		
	9/10/2018 6:05:00 PM	NA	N	Y	2	J	3	J	4.1		2.4	UB	7.1	UB	0.63	J	0.77	U	0.34	U	0.43	U	0.34	U	0.26	U	1.7		0.34	U	1.2	J	0.34	U	2.2			
	11/13/2018 8:45:00 AM	NA	N	Y	1.7	U	1.7	U	1	J	0.68	J	3.3		0.34	U	0.77	U	0.34	U	0.43	U	0.34	U	0.26	U	0.46	J	0.34	UJ	0.38	J	0.34	U	1.2	J		
	11/11/2022 7:05:00 PM	ES	N	N	1.9	U	1.7	J	1.6	J	1	J	2.4		0.47	U	0.47	U																				

Indicates pre-2022 wet-weather sampling result

Notes

- 1) Sample Timing
FF = First Flush
ES = Early Storm
LS = Late Storm
NA = Not applicable (for surface water)
- 2) Abbreviations
N = Normal (primary) sample
FD = Field duplicate sample
B = Concentration was identified in the blank sample and normal sample
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
R = Rejected
U = The analyte was analyzed for, but was not detected above the level of the reported sample method detection limit (MDL).
- 3) Results in ng/l = nanograms per liter

Table 3: Stormwater and Surface Water Wet-Weather Analytical Results Summary

Location	Sample Date	Sample Timing	Sample Type	Validated (Y/N)	6:2 Fluorotelomer sulfonic acid		NEtFOSAA		NMeFOSAA		PFOSA		2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid		Perfluoronanesulfonic acid (PFNS)		8:2 Fluorotelomer sulfonic acid		N-ethyl perfluoro-1-octanesulfonamide	
RP-1	11/11/2022 5:40:00 PM	FF	N	N	160		3.7		0.51	U	2.5		11		0.42	U	2	J	0.84	U
	11/11/2022 8:20:00 PM	LS	N	N	13		0.82	J	0.49	U	0.58	U	0.82	U	0.41	U	0.82	U	0.82	U
RP-2	11/11/2022 6:00:00 PM	FF	N	N	540		4.1		0.59	U	5		16		0.49	U	5.3		0.98	U
	11/11/2022 8:25:00 PM	LS	N	N	42		1.2	J	0.49	U	1.1	J	1.3	JT	0.41	U	0.88	J	0.82	U
RP-3	11/11/2022 6:15:00 PM	FF	N	N	1400		170		5.1	U	71		15	JT	4.3	U	24	J	8.5	U
	11/11/2022 8:35:00 PM	LS	N	N	14		6		0.5	U	2.3		0.83	U	0.41	U	0.83	U	0.83	U
RP-4	11/11/2022 6:35:00 PM	FF	N	N	8.9		0.43	U	0.52	U	0.79	J	0.86	U	0.43	U	0.86	U	0.86	U
	11/11/2022 8:45:00 PM	LS	N	N	3.5	U	0.42	U	0.5	U	0.58	U	0.83	U	0.42	U	0.83	U	0.83	U
RD-MB-NE	9/10/2018 5:42:00 PM	FF	N	Y	89000		70		4.9	U	63		92							
	11/11/2022 5:40:00 PM	FF	N	N	1100		130		0.52	U	57		11		0.52	J	20		20	
	11/11/2022 7:45:00 PM	LS	N	N	250		38		0.49	U	41		1.4	J	0.41	U	6.3		4.5	
RD-MB-NW	9/10/2018 5:37:00 PM	FF	N	Y	14000		16		5	U	7	J	150							
	11/11/2022 5:40:00 PM	FF	N	N	370		7.7	J	6	U	7	U	10	U	5	U	10	U	10	U
	11/11/2022 7:45:00 PM	LS	N	N	36		2.4	J	0.56	U	2.1		1.7	J	0.47	U	0.94	U	0.94	U
RD-MB-SE	9/10/2018 5:58:00 PM	FF	N	Y	610		12	J	4.9	U	5.9	J	10							
	11/11/2022 5:50:00 PM	FF	N	N	18		8.2		0.52	U	2.4		4.2		0.44	U	0.87	U	0.87	U
	11/11/2022 7:45:00 PM	LS	N	N	3.8	U	4.9		0.54	U	2		1.4	J	0.45	U	0.9	U	0.9	U
RD-MB-SW	9/10/2018 5:25:00 PM	FF	N	Y	490		4.9	U	4.9	U	3.2	J	36	J						
	11/11/2022 5:40:00 PM	FF	N	N	42	U	5	U	6	U	7	U	35	T	5	U	10	U	10	U
	11/11/2022 7:45:00 PM	LS	N	N	3.8	U	0.75	J	0.55	U	1.2	J	0.92	U	0.46	U	0.92	U	0.92	U
RD-NMB	9/10/2018 3:18:00 PM	FF	N	Y	9200		4.9	U	4.9	U	20		23	J						
	11/11/2022 5:40:00 PM	FF	N	N	73		19		0.6	U	29		4.1		0.5	U	2.7	J	1	U
	11/11/2022 7:45:00 PM	LS	N	N	18		6.5		0.55	U	4.3		1.3	J	0.46	U	0.92	U	0.92	U
SGPP-OUTFALL-001	6/4/2018 5:50:00 AM	FF	N	Y	50	J	16		0.91	U	5.3	J	2.3	J	0.54	U	1.8	U	2.7	UJ
	9/10/2018 5:05:00 PM	FF	N	Y	26		5.7		0.86	U	1.1	J	1.7							
	9/10/2018 7:15:00 PM	LS	FD	Y	8800		20		5	U	18		41	J						
		LS	N	Y	8100		29		0.86	U	17		57	J						
	11/13/2018 7:55:00 AM	LS	N	Y	72		8.5	U	8.5	U	4.3	U	4.3	U						
	11/11/2022 7:05:00 PM	ES	N	N	140		38		0.49	U	12		2.6		0.4	U	2.7		0.81	U
	11/11/2022 7:45:00 PM	LS	N	N	120		28		0.49	U	15		2.3	J	0.41	U	2.5		0.81	U
	11/11/2022 8:25:00 PM	LS	N	N	40		27		0.49	U	11		0.85	J	0.4	U	1.4	J	0.81	U
SW-MERR-101W-NS	11/11/2022 8:55:00 PM	LS	N	N	26		14		0.48	U	4		0.8	J	0.4	U	0.8	U	0.8	U
	11/16/2017 5:20:00 PM	NA	N	Y			1	U	1	U										
	6/4/2018 7:10:00 AM	NA	FD	Y	0.98	UJ	0.98	U	0.98	U	0.98	UJ	0.78	UB	0.59	U	2	U	2.9	R
		NA	N	Y	0.98	UJ	0.98	U	0.98	U	0.98	UJ	0.54	UB	0.59	U	2	U	2.9	R
	9/10/2018 6:05:00 PM	NA	N	Y	1.6	J	1	J	0.85	U	0.68	J	0.43	U						
	11/13/2018 8:45:00 AM	NA	N	Y	0.86	U	0.86	U	0.86	U	0.43	U	0.43	U						
	11/11/2022 7:05:00 PM	ES	N	N	4	U	0.47	U	0.56	U	0.66	U	0.94	U	0.47	U	0.94	U	0.94	U
	11/11/2022 7:45:00 PM	LS	N	N	4	U	0.47	U	0.57	U	0.66	U	0.95	U	0.47	U	0.95	U	0.95	U
SW-MERR-202W-NS	11/16/2017 2:05:00 PM	NA	N	Y			0.7	U	0.7	U										
	6/4/2018 7:15:00 AM	NA	N	Y			0.91	U	0.91	U										
	9/10/2018 6:40:00 PM	NA	N	Y	0.86	U	0.86	U	0.86	U	0.43	U	0.42	U						
	11/13/2018 8:00:00 AM	NA	N	Y	0.85	U	0.85	U	0.85	U	0.43	U	0.43	UJ						
	11/11/2022 7:05:00 PM	ES	N	N	3.4	U	0.41	U	0.49	U	0.57	U	0.81	U	0.41	U	0.81	U	0.81	U
	11/11/2022 7:45:00 PM	LS	N	N	3.7	U	0.44	U	0.52	U	0.61	U	0.87	U	0.44	U	0.87	U	0.87	U

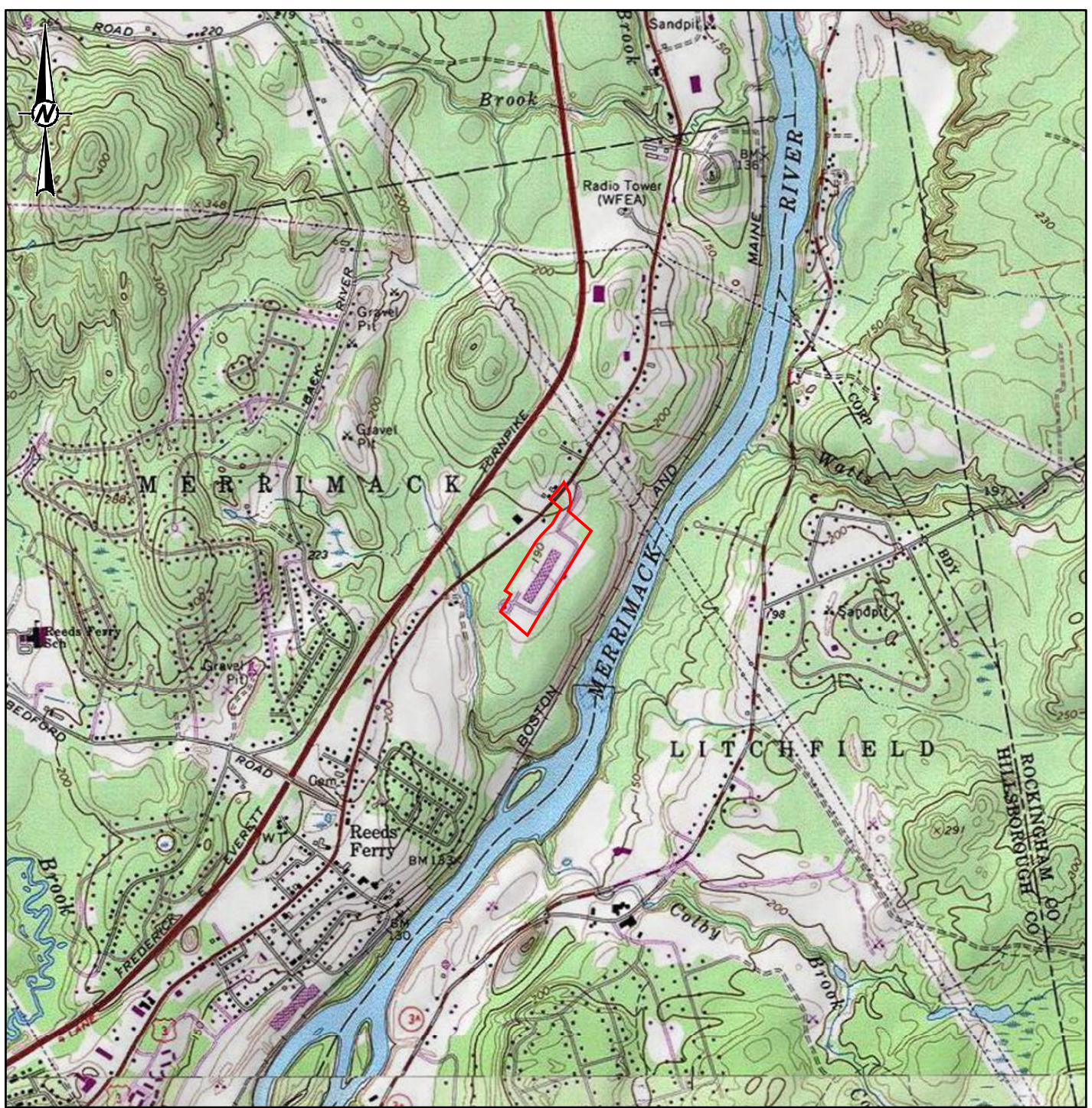
Indicates pre-2022 wet-weather sampling result

Notes

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U = The analyte was analyzed for, but was not detected above the level of the reported sample method detection limit (MDL).
- 3) Results in ng/l = nanograms per liter

Prepared by: ESI
Checked by: CC
Reviewed by: RWB

Figures

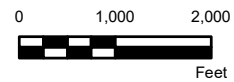


LEGEND

 Approximate SGPP Facility Property Boundary



Site



NOTE(S)

REFERENCE(S)

1. PARCEL MOSAIC DOWNLOADED FROM NH GRANIT
2. SERVICE LAYER CREDITS: COPYRIGHT: © 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED

CLIENT
SAINT-GOBAIN PERFORMANCE PLASTICS

PROJECT
**SUPPLEMENTAL SITE INVESTIGATION REPORT
SAINT-GOBAIN PERFORMANCE PLASTICS FACILITY
MERRIMACK, NH**

CONSULTANT



YYYY-MM-DD 10/13/2020

DESIGNED RWB

PREPARED SHL

REVIEWED BDL

APPROVED RWB

TITLE

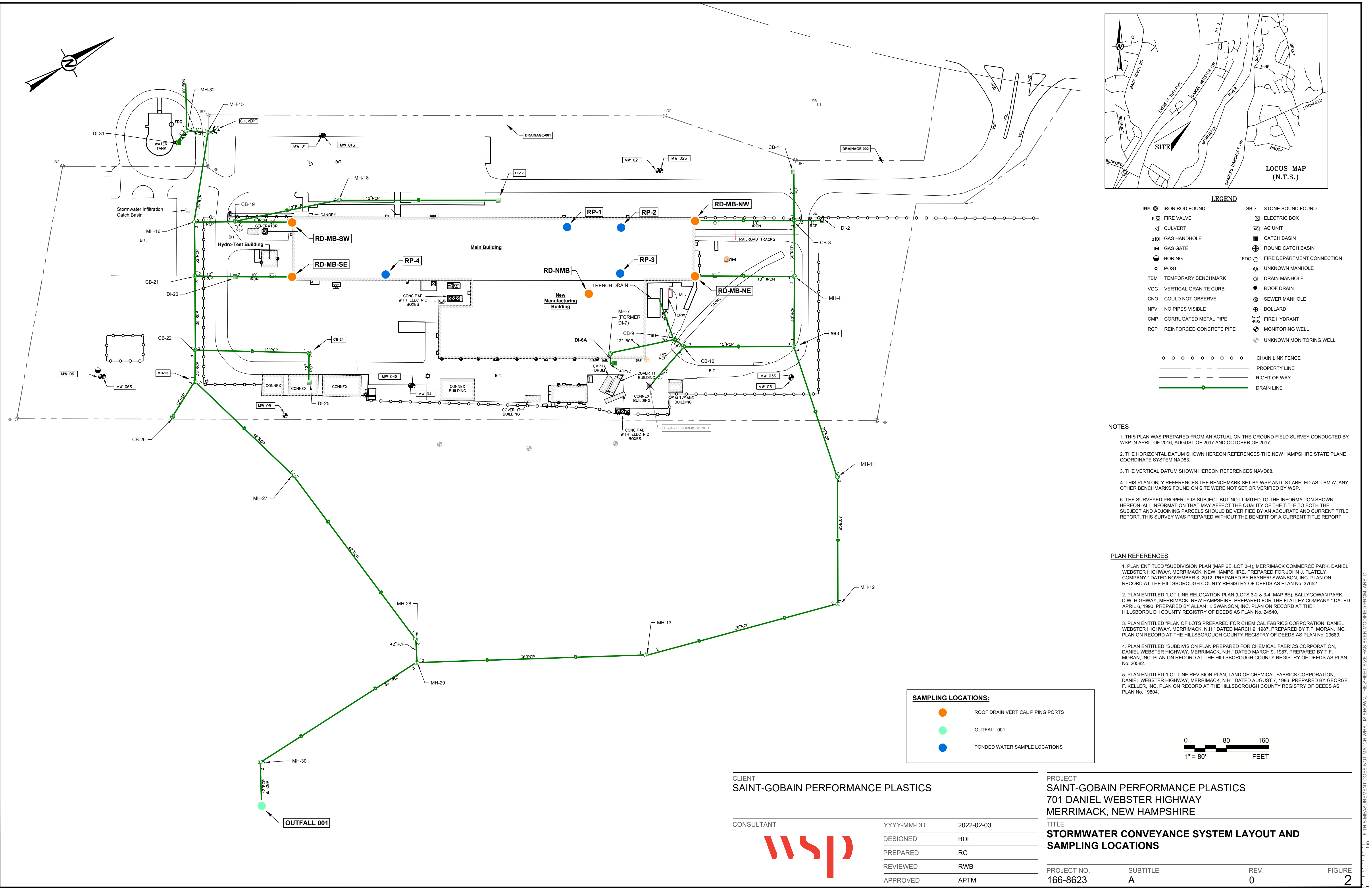
FACILITY LOCATION MAP

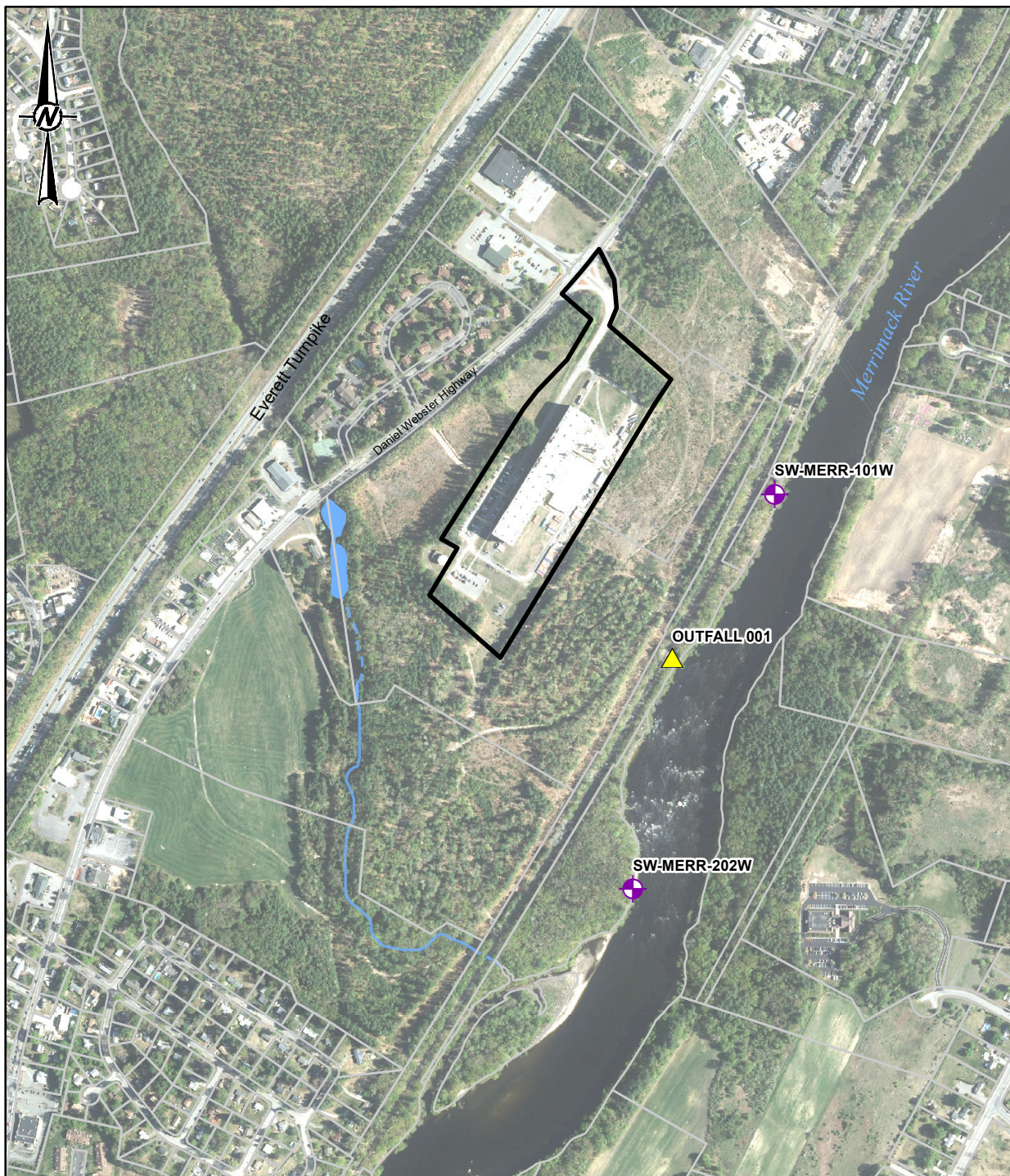
PROJECT NO.
1668623

CONTROL
-

REV.
0

FIGURE
1





LEGEND

-  Outfall Sampling Location
-  Merrimack River Near Shore Sampling Location
-  Dumpling Brook
-  Dumpling Brook - Underground
-  Approximate SGPP Facility Boundary



NOTE(S)

REFERENCE(S)

1. COORDINATE SYSTEM: NAD 1983 2011 STATEPLANE NEW HAMPSHIRE FIPS 2800 FT US
2. 2015 IMAGERY DOWNLOADED FROM NH GRANIT WEBSITE

CLIENT

SAINT-GOBAIN PERFORMANCE PLASTICS

PROJECT

SAINT-GOBAIN PERFORMANCE PLASTICS
701 DANIEL WEBSTER HIGHWAY
MERRIMACK, NH

TITLE

MERRIMACK RIVER SAMPLING LOCATIONS

CONSULTANT



YYYY-MM-DD 2021-01-26

DESIGNED BDL

PREPARED TBH

REVIEWED BDL

APPROVED RWB

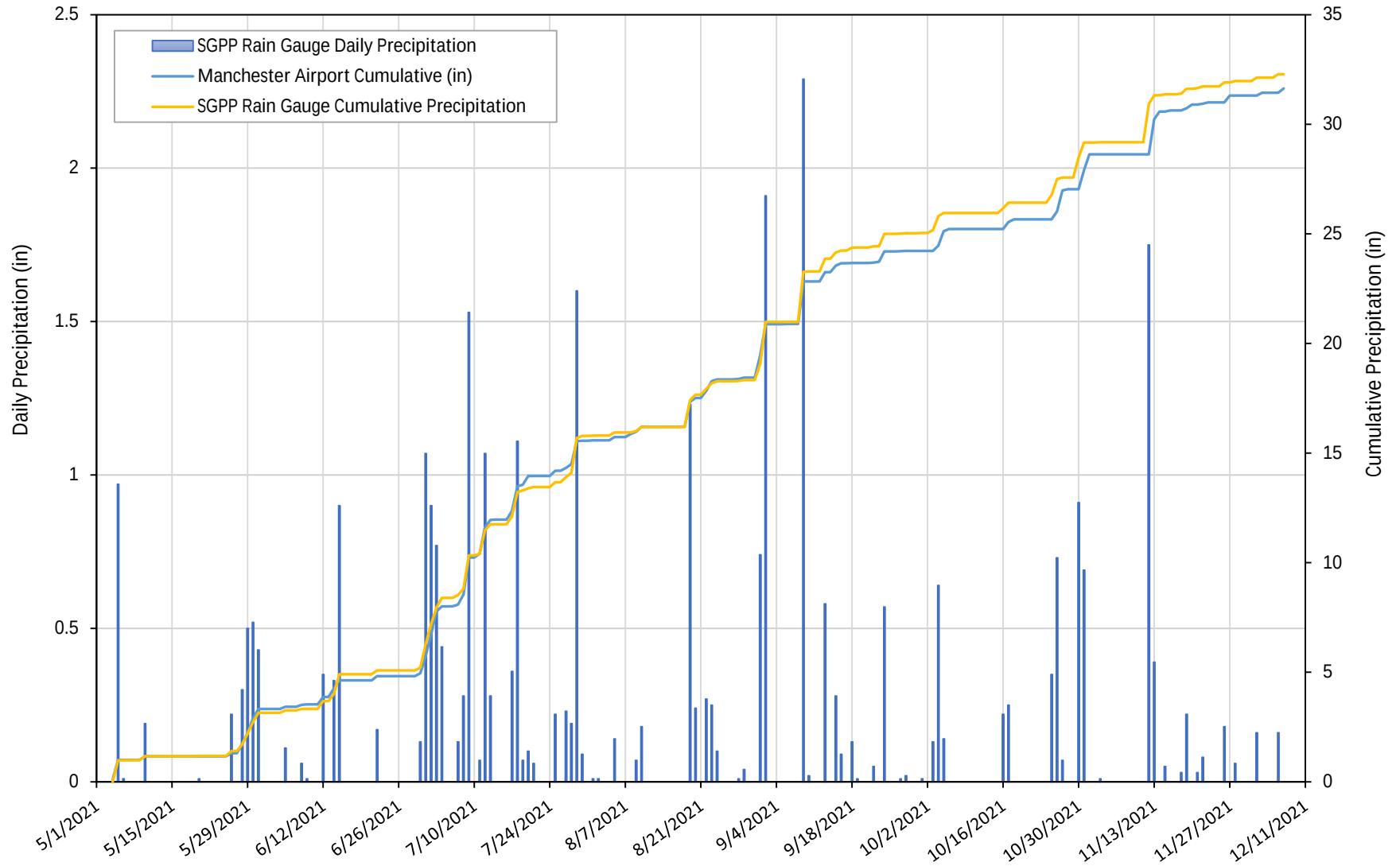
PROJECT NO.
1668623

CONTROL
-

REV.
-

FIGURE
3

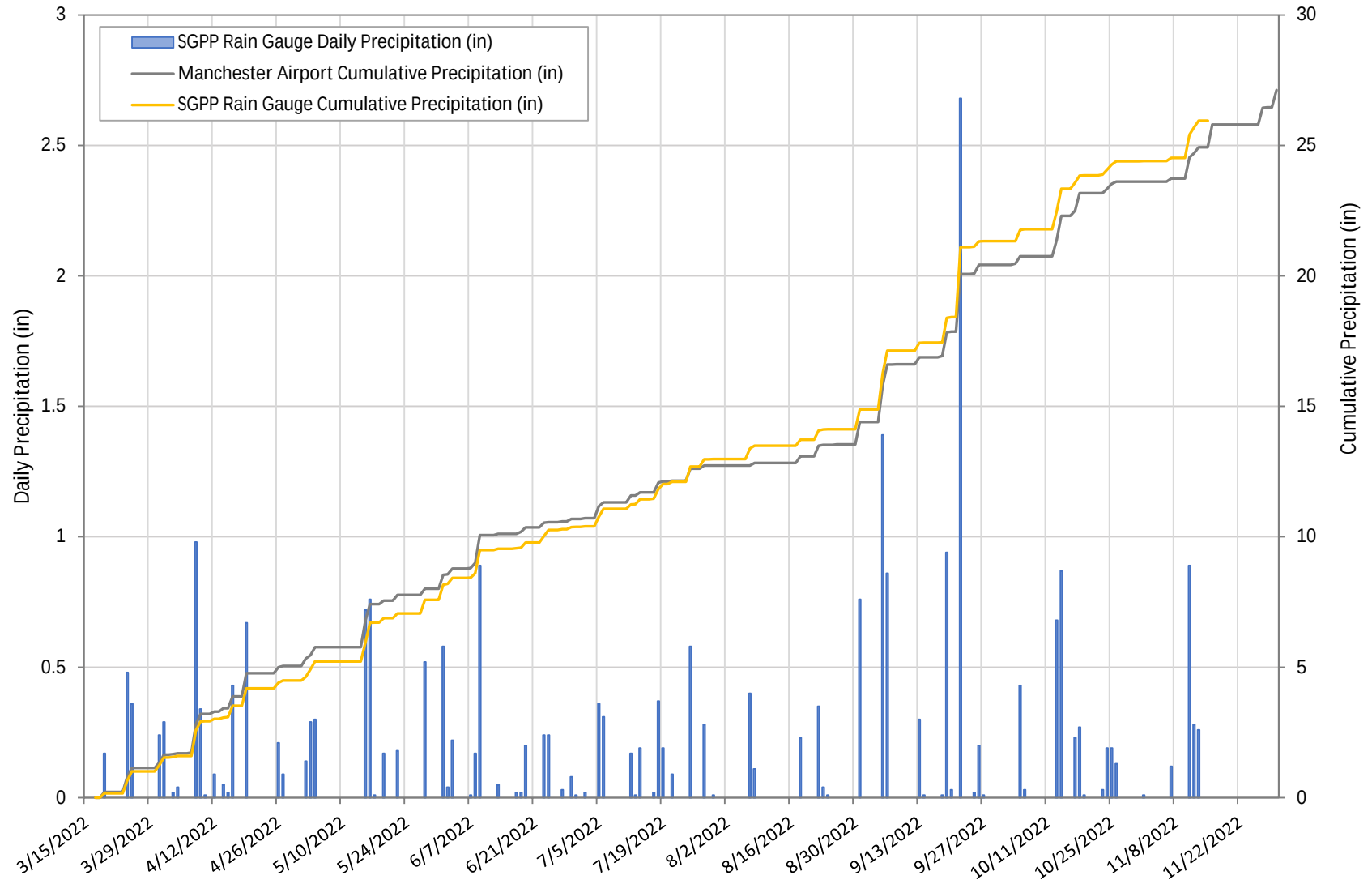
Figure 4A: Site Precipitation Data Summary - 2021
Saint-Gobain Performance Plastics
Merrimack, New Hampshire



Notes:

1. Precipitation data were collected using two HOBO® data-logging tipping-bucket rain gauge.

Figure 4B: Site Precipitation Data Summary - 2022
Saint-Gobain Performance Plastics
Merrimack, New Hampshire



Notes:

1. Site precipitation data were collected using two HOBO® data-logging tipping-bucket rain gauge.

Figure 5: Stormwater Meter Summary
Saint-Gobain Performance Plastics
Merrimack, New Hampshire

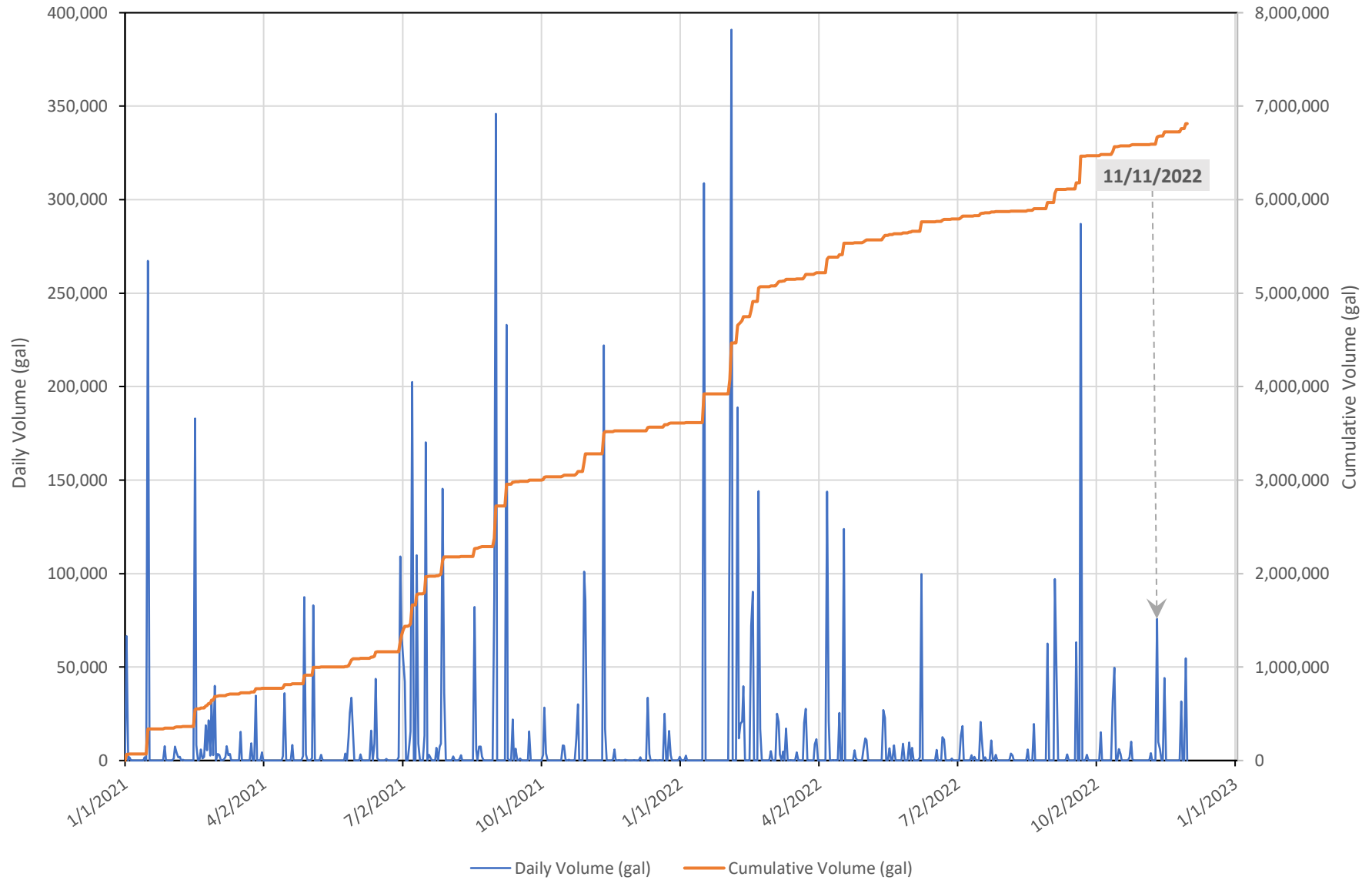


Figure 6: Cumulative Rainfall Since RTO Startup (2021-2022)
Saint-Gobain Performance Plastics
Merrimack, New Hampshire

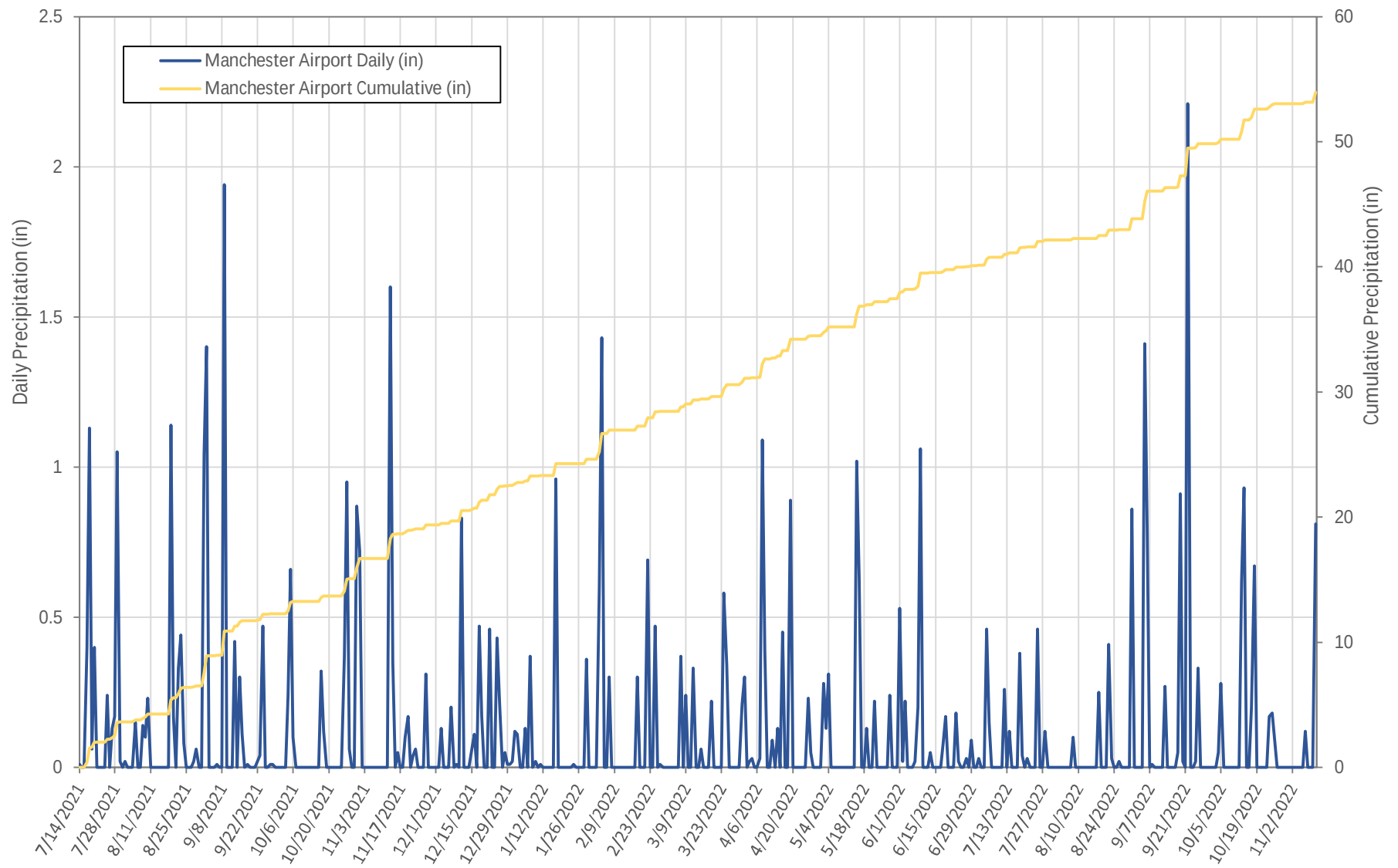
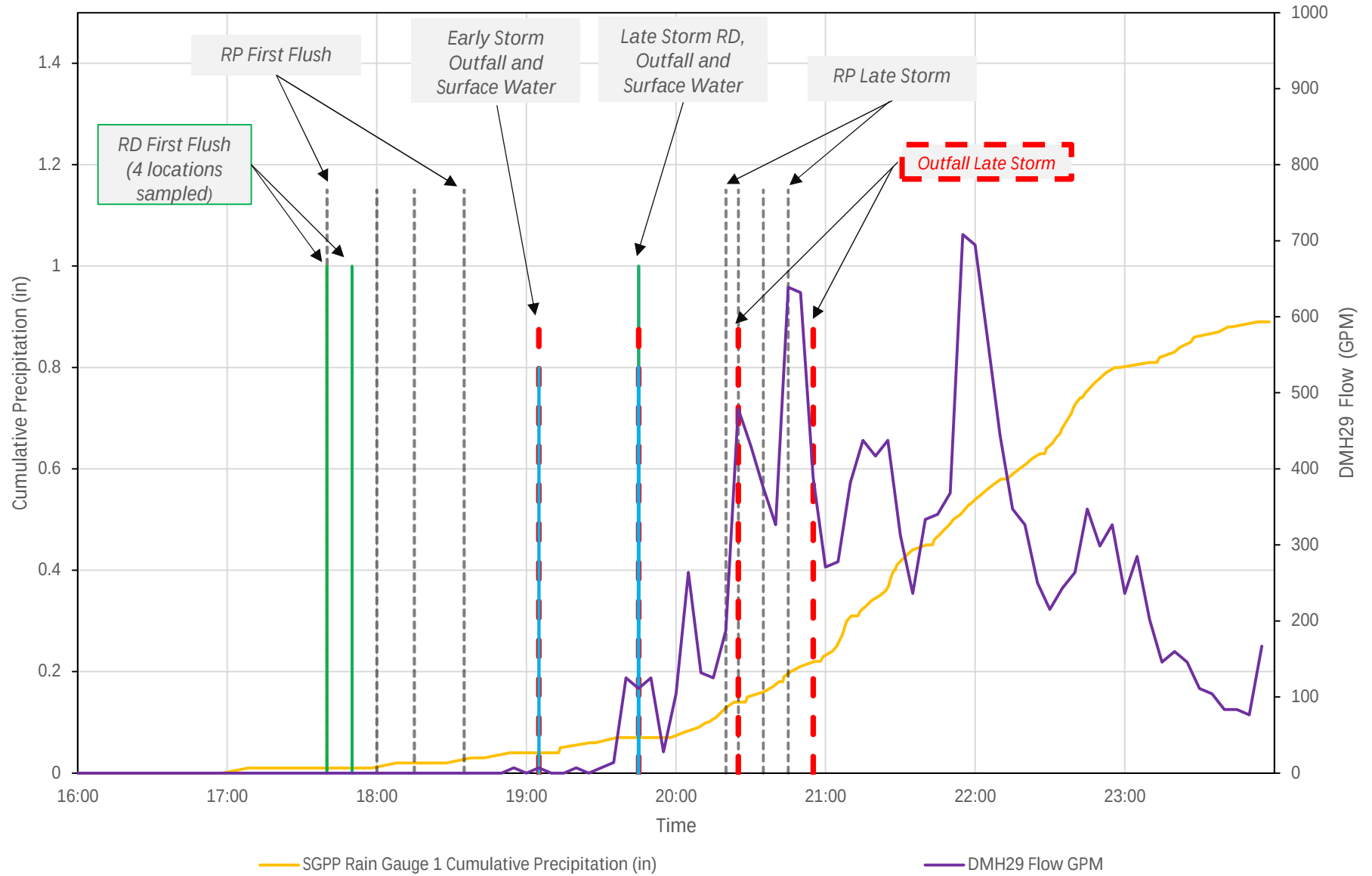


Figure 7: Precipitation, Stormwater Flow, and Sampling Times - November 11, 2022
Saint-Gobain Performance Plastics
Merrimack, New Hampshire



APPENDIX A

Laboratory Analytical Report

ANALYTICAL REPORT

PREPARED FOR

Attn: Brendan Lennon
Golder Associates Inc
10 Al Paul Lane
Suite 103
Merrimack, New Hampshire 03054

Generated 1/6/2023 5:18:08 PM

JOB DESCRIPTION

SGPP Rainwater

JOB NUMBER

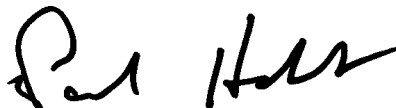
410-105783-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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1/6/2023 5:18:08 PM

Authorized for release by
Paul Hobart, Project Manager
Paul.Hobart@et.eurofinsus.com
(617)312-8660

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

• QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Paul H. H.

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Definitions/Glossary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was 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
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Job ID: 410-105783-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-105783-1

Receipt

The samples were received on 11/15/2022 10:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9°C and 1.6°C

Receipt Exceptions

The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): RD-MB-SE 1750 (410-105783-35) and RD-MB-SE 1945 (410-105783-36)

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SW-MERR-202W 1945 (410-105783-13). The container labels list 19:05, while the COC lists 19:45. The client was contacted, and the lab was instructed to use a sample collection time of 19:45.

PFAS

Method PFC_IDA: The recoveries for the labeled isotope(s): M2-6:2 FTS and M2-8:2 FTS in the following sample: RD-MB-SE 1945 (410-105783-36) were outside the QC acceptance limits. Since the recoveries were high and the native analytes were not detected in the sample, the data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) 13C3 PFBS and 13C5 PFPeA in the following sample: RP-EB (410-105783-2) is outside the QC acceptance limits due to the matrix of the sample. The sample injection standard peak areas in the following sample: RP-EB (410-105783-2) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Method PFC_IDA: The sample injection standard peak areas in the following samples: RD-MB-NE 1740 (410-105783-22), OUTFALL 001 1905 (410-105783-26) and RD-MB-SE 1750 (410-105783-35) are outside of the QC limits for both the initial injection and the re-extracted. The values here are from the initial injection of the sample.

Method PFC_IDA: The sample injection standard peak areas in the following sample: RP-4 2045 (410-105783-10) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample. The recovery for the labeled isotope: 13C4 PFBA and 13C5 PFPeA in the following sample: RP-4 2045 (410-105783-10) is outside the QC acceptance limits due to the matrix of the sample.

Method PFC_IDA: The sample injection standard peak areas in the following sample: RP-3 2035 (410-105783-9) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample. The recovery for the labeled isotope: M2-8:2 FTS, 13C3 PFBS and 13C5 PFPeA in the following sample: RP-3 2035 (410-105783-9) is outside the QC acceptance limits due to the matrix of the sample.

Method PFC_IDA: The sample injection standard peak areas in the following sample: RP-1 1740 (410-105783-3) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample. The recovery for the labeled isotope: M2-6:2 FTS, M2-8:2 FTS and 13C3 PFBS in the following sample: RP-1 1740 (410-105783-3) is outside the QC acceptance limits due to the matrix of the sample.

Method PFC_IDA: Reporting limits were raised for the following sample: RP-3 1815 (410-105783-5) due to interference from the sample matrix.

Method PFC_IDA: The sample injection standard peak areas in the following sample: RP-4 1835 (410-105783-6) are outside of the QC limits for both the initial injection and the re-extracted. The values here are from the initial injection of the sample.

Method PFC_IDA: The recovery for 13C3 PFBS in RP-4 1835 (410-105783-6) is above the QC acceptance limits due to the matrix of the sample.

Case Narrative

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Job ID: 410-105783-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Method PFC_IDA: The recovery for the labeled isotope(s) M2-6:2 FTS in the following sample: RD-MB-SW 1740 (410-105783-16) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the sample, the data is reported.

Method PFC_IDA: Reporting limits were raised for the following sample: RD-MB-SW 1740 (410-105783-16) due to interference from the sample matrix.

Method PFC_IDA: A sample injection standard peak area in RP-2 1800 (410-105783-4), RP-1 2020 (410-105783-7) and RP-2 2025 (410-105783-8) is below the QC limit for both the initial injections and the re-injections. The values here are from the initial injections of RP-2 1800 (410-105783-4), RP-1 2020 (410-105783-7) and RP-2 2025 (410-105783-8).

Method PFC_IDA: The recovery for the labeled isotope(s) M2-6:2 FTS, M2-8:2 FTS and 13C3 PFBS in the following sample: RP-2 1800 (410-105783-4) are above the QC acceptance limits due to the sample matrix.

Method PFC_IDA: The recovery for the labeled isotope(s) d3-NMePFOSA and d5-NEtPFOSA in the following sample: RP-2 1800 (410-105783-4) and SW-MERR-202W 1945 (410-105783-13) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted sample(s) is within the QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) 13C3 PFBS and 13C5 PFPeA in the following sample: RP-1 2020 (410-105783-7) are above the QC acceptance limits due to the sample matrix.

Method PFC_IDA: The recovery for the labeled isotope(s) M2-6:2 FTS in the following samples: RD-NMB 1945 (410-105783-21) is outside the QC acceptance limits. The following action was taken: These samples were re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted sample(s) is within the QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) M2-6:2 FTS, M2-8:2 FTS and 13C3 PFBS in the following sample: RP-2 2025 (410-105783-8) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted sample(s) is within the QC acceptance limits.

Method PFC_IDA: The recoveries for M2-6:2 FTS and M2-8:2 FTS in RD-NMB 1740 (410-105783-20) are above the QC acceptance limits. RD-NMB 1740 (410-105783-20) were re-extracted outside of the required holding time and the recoveries for M2-6:2 FTS and M2-8:2 FTS were within the QC acceptance limits.

Method PFC_IDA: The recoveries for M2-6:2 FTS and M2-8:2 FTS in RD-MB-SW 1945 (410-105783-17) are above the QC acceptance limits. Since the recoveries are high and the native analytes are not detected in RD-MB-SW 1945 (410-105783-17), the data are reported.

Method PFC_IDA: The recovery for the labeled isotope(s) d9-N-EtFOSE-M and d5-NEtPFOSA in the following sample: RD-MB-SW 1945 (410-105783-17) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted sample(s) is within the QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) M2-6:2 FTS and M2-8:2 FTS in the following sample: RP-1 2020 (410-105783-7) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted sample(s) is within the QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) M2-6:2 FTS, M2-8:2 FTS, d3-NMePFOSA and d5-NEtPFOSA in the following sample: RD-NMB 1740 (410-105783-20) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted sample(s) is within the QC acceptance limits.

Method PFC_IDA: Reporting limits were raised for the following sample: RD-MB-NW 1740 (410-105783-18) due to interference from the sample matrix.

Case Narrative

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Job ID: 410-105783-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Method PFC_IDA: The recovery for the labeled isotope(s) M2-6:2 FTS in the following sample: RD-MB-NW 1740 (410-105783-18) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted sample(s) is within the QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) M2-6:2 FTS, M2-8:2 FTS, d3-NMePFOSA and d5-NEtPFOSA in the following sample: RD-MB-NW 1945 (410-105783-19) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted sample(s) is within the QC acceptance limits.

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

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-EB

Lab Sample ID: 410-105783-2

No Detections.

Client Sample ID: RP-1 1740

Lab Sample ID: 410-105783-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	3.7		2.5	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	170		4.2	1.7	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	11		2.5	0.84	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	64		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	20		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	150		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	2.2		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	320		1.7	0.76	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	37		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	2.5		1.7	0.59	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	45		1.7	0.84	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	110		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	15		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	11		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	23		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	160		4.2	3.5	ng/L	1		T-WI14355 r13	Total/NA
8:2 Fluorotelomer sulfonic acid	2.0	J	2.5	0.84	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid - DL	660		17	4.2	ng/L	10		T-WI14355 r13	Total/NA

Client Sample ID: RP-2 1800

Lab Sample ID: 410-105783-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	4.1	cn	2.9	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	8.9	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	200	cn	4.9	2.0	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	16	cn	2.9	0.98	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	250	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	140	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	380	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	2.9	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	140	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	5.0	cn	2.0	0.68	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	41	cn	2.0	0.98	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	240	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	28	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	39	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	110	cn	2.0	0.49	ng/L	1		T-WI14355 r13	Total/NA
8:2 Fluorotelomer sulfonic acid	5.3	cn	2.9	0.98	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid - DL	710	cn	20	8.8	ng/L	10		T-WI14355 r13	Total/NA
Perfluorooctanoic acid - DL	1200	cn	20	4.9	ng/L	10		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid - DL	540	cn	49	41	ng/L	10		T-WI14355 r13	Total/NA

Client Sample ID: RP-3 1815

Lab Sample ID: 410-105783-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	170	cn	26	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	14	J cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	230	cn	43	17	ng/L	10		T-WI14355 r13	Total/NA
HFPODA	15	J I cn	26	8.5	ng/L	10		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-3 1815 (Continued)

Lab Sample ID: 410-105783-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	180	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	94	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluoroheptanesulfonic acid	19	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	1800	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	72	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	1300	cn	17	7.7	ng/L	10		T-WI14355 r13	Total/NA
Perfluorononanoic acid	190	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	71	cn	17	6.0	ng/L	10		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	1900	cn	17	8.5	ng/L	10		T-WI14355 r13	Total/NA
Perfluoropentanesulfonic acid	17	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	420	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	68	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	55	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	89	cn	17	4.3	ng/L	10		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	1400	cn	43	36	ng/L	10		T-WI14355 r13	Total/NA
8:2 Fluorotelomer sulfonic acid	24	J cn	26	8.5	ng/L	10		T-WI14355 r13	Total/NA
Perfluorooctanoic acid - DL	7000		170	43	ng/L	100		T-WI14355 r13	Total/NA

Client Sample ID: RP-4 1835

Lab Sample ID: 410-105783-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.56	J cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	22	cn	4.3	1.7	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	5.6	cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	1.4	J cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	13	cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	0.92	J cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	27	cn	1.7	0.78	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	3.6	cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	0.79	J cn	1.7	0.60	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	11	cn	1.7	0.86	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	79	cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	6.1	cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	0.97	J cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	0.54	J cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	1.3	J cn	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	8.9	cn	4.3	3.6	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RP-1 2020

Lab Sample ID: 410-105783-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	0.82	J cn	2.5	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	0.45	J cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	3.9	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	2.7	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	4.7	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	8.6	cn	1.6	0.74	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	2.5	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	7.4	cn	1.6	0.82	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	33	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	3.2	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	4.6	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-1 2020 (Continued)

Lab Sample ID: 410-105783-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	1.9	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	1.4	J cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	13	cn	4.1	3.5	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RP-2 2025

Lab Sample ID: 410-105783-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	1.2	J cn	2.5	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	1.2	J cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	9.1	cn	4.1	1.6	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	1.3	J I cn	2.5	0.82	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	37	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	24	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	24	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	44	cn	1.6	0.74	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	16	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	1.1	J cn	1.6	0.57	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	8.0	cn	1.6	0.82	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	130	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	13	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	15	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	12	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	14	cn	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	42	cn	4.1	3.4	ng/L	1		T-WI14355 r13	Total/NA
8:2 Fluorotelomer sulfonic acid	0.88	J cn	2.5	0.82	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RP-3 2035

Lab Sample ID: 410-105783-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	6.0		2.5	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	2.0	J	4.1	1.7	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	3.6		1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	6.6		1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	8.1		1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	0.53	J	1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	5.9		1.7	0.75	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	2.1		1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	2.3		1.7	0.58	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	29		1.7	0.83	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	71		1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	2.0		1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	9.5		1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	6.3		1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	3.0		1.7	0.41	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	14		4.1	3.5	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RP-4 2045

Lab Sample ID: 410-105783-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	1.9		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	2.8		1.7	0.75	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	5.4		1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-4 2045 (Continued)

Lab Sample ID: 410-105783-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid	0.93	J	1.7	0.42	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: EB-DS

Lab Sample ID: 410-105783-11

No Detections.

Client Sample ID: SW-MERR-202W 1905

Lab Sample ID: 410-105783-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.99	J	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	0.79	J	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	0.51	J	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	1.6		1.6	0.73	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	1.1	J	1.6	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	1.9		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	1.1	J	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: SW-MERR-202W 1945

Lab Sample ID: 410-105783-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.88	J	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	0.81	J	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	0.58	J	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	1.4	J	1.7	0.79	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	0.97	J	1.7	0.87	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	2.1		1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	1.1	J	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: EB-RD

Lab Sample ID: 410-105783-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	1.1	J	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	2.1		1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	1.0	J	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	1.8		1.7	0.77	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	0.52	J	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	1.1	J	1.7	0.85	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	7.5		1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	0.98	J	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	1.0	J	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	1.5	J	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	0.97	J	1.7	0.43	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RD-MB-SW 1740

Lab Sample ID: 410-105783-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	97	cn	50	20	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	35	I cn	30	10	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	19	J cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	7.9	J cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	130	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	230	cn	20	9.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	20	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	17	J cn	20	10	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-SW 1740 (Continued)

Lab Sample ID: 410-105783-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	480	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	77	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RD-MB-SW 1945

Lab Sample ID: 410-105783-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	0.75	J	2.7	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	5.3		4.6	1.8	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	2.4		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	1.6	J	1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	8.2		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	13		1.8	0.82	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	1.8	I	1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	1.2	J	1.8	0.64	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	1.8		1.8	0.92	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	32		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	5.0		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	1.0	J	1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	0.53	J	1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	0.96	J	1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RD-MB-NW 1740

Lab Sample ID: 410-105783-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	7.7	J cn	30	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	9.5	J cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	140	cn	50	20	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	120	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	70	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	240	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	450	cn	20	9.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	75	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	46	cn	20	10	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	920	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	150	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	24	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	29	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	48	cn	20	5.0	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	370	cn	50	42	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RD-MB-NW 1945

Lab Sample ID: 410-105783-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	2.4	J	2.8	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	0.68	J	1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	18		4.7	1.9	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	1.7	J	2.8	0.94	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	21		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	19		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	31		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	58		1.9	0.84	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	8.7		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-NW 1945 (Continued)

Lab Sample ID: 410-105783-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonamide	2.1		1.9	0.66	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	6.7		1.9	0.94	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	150		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	24		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	11		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	8.9		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	10		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	36		4.7	3.9	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RD-NMB 1740

Lab Sample ID: 410-105783-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	19		3.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	1.5	J	2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	29		5.0	2.0	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	4.1		3.0	1.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	68		2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	52		2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanesulfonic acid	0.81	J	2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	93		2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	1.9	J	2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	120		2.0	0.90	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	31		2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	29		2.0	0.70	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	110		2.0	1.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	40		2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	15		2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	20		2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	31		2.0	0.50	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	73		5.0	4.2	ng/L	1		T-WI14355 r13	Total/NA
8:2 Fluorotelomer sulfonic acid	2.7	J	3.0	1.0	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid - DL	400		20	5.0	ng/L	10		T-WI14355 r13	Total/NA

Client Sample ID: RD-NMB 1945

Lab Sample ID: 410-105783-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	6.5		2.7	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	0.65	J	1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	14		4.6	1.8	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	1.3	J I	2.7	0.92	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	14		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	11		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	30		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	0.53	J	1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	47		1.8	0.82	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	7.7		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	4.3		1.8	0.64	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	31		1.8	0.92	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	130		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	20		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	4.4		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	5.1		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-NMB 1945 (Continued)

Lab Sample ID: 410-105783-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroundecanoic acid	7.1		1.8	0.46	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	18		4.6	3.8	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RD-MB-NE 1740

Lab Sample ID: 410-105783-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	130	cn	2.6	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	3.7	I cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	210	cn	4.4	1.7	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	11	cn	2.6	0.87	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	160	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	120	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
NEtFOSA	20	cn	4.4	0.87	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanesulfonic acid	3.6	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	22	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanesulfonic acid	0.52	J cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	100	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	57	cn	1.7	0.61	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanesulfonic acid	4.8	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	250	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	110	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	68	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	74	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
8:2 Fluorotelomer sulfonic acid	20	cn	2.6	0.87	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid - DL	600		17	4.4	ng/L	10		T-WI14355 r13	Total/NA
Perfluorohexanoic acid - DL	690		17	7.9	ng/L	10		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid - DL	660		17	8.7	ng/L	10		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid - DL	1100		44	37	ng/L	10		T-WI14355 r13	Total/NA
Perfluorooctanoic acid - DL2	3700		170	44	ng/L	100		T-WI14355 r13	Total/NA

Client Sample ID: RD-MB-NE 1945

Lab Sample ID: 410-105783-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	38		2.4	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	2.4		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	33		4.1	1.6	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	1.4	J	2.4	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	46		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	27		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
NEtFOSA	4.5		4.1	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanesulfonic acid	2.4		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	220		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	10		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	200		1.6	0.73	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	38		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	41		1.6	0.57	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanesulfonic acid	2.2		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	56		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	10		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	7.4		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	19		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	250		4.1	3.4	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-NE 1945 (Continued)

Lab Sample ID: 410-105783-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
8:2 Fluorotelomer sulfonic acid	6.3		2.4	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid - DL	310		16	8.1	ng/L	10		T-WI14355 r13	Total/NA
Perfluorooctanoic acid - DL	1400		16	4.1	ng/L	10		T-WI14355 r13	Total/NA

Client Sample ID: TB-1

Lab Sample ID: 410-105783-24

No Detections.

Client Sample ID: EB-OUTFALL

Lab Sample ID: 410-105783-25

No Detections.

Client Sample ID: OUTFALL 001 1905

Lab Sample ID: 410-105783-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	38	cn	2.4	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	4.4	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	61	cn	4.0	1.6	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	2.6	cn	2.4	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	34	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	17	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanesulfonic acid	1.3	J cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	170	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	7.0	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	230	cn	1.6	0.73	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	24	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	12	cn	1.6	0.57	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	140	cn	1.6	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanesulfonic acid	2.4	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	120	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	5.8	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	7.4	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	13	cn	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	140	cn	4.0	3.4	ng/L	1		T-WI14355 r13	Total/NA
8:2 Fluorotelomer sulfonic acid	2.7	cn	2.4	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid - DL	920		16	4.0	ng/L	10		T-WI14355 r13	Total/NA

Client Sample ID: OUTFALL 001 1945

Lab Sample ID: 410-105783-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	28		2.4	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	2.9		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	48		4.1	1.6	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	2.3	J	2.4	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	37		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	22		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanesulfonic acid	0.98	J	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	130		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	4.3		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	170		1.6	0.73	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	23		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	15		1.6	0.57	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	110		1.6	0.81	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: OUTFALL 001 1945 (Continued)

Lab Sample ID: 410-105783-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanesulfonic acid	1.1	J	1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	79		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	12		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	13		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	14		1.6	0.41	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	120		4.1	3.4	ng/L	1		T-WI14355 r13	Total/NA
8:2 Fluorotelomer sulfonic acid	2.5		2.4	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid - DL	640		16	4.1	ng/L	10		T-WI14355 r13	Total/NA

Client Sample ID: OUTFALL 001 2025

Lab Sample ID: 410-105783-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	27		2.4	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	1.4	J	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	16		4.0	1.6	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	0.85	J	2.4	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	20		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	17		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanesulfonic acid	0.57	J	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	36		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	1.9		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	48		1.6	0.73	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	8.7		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	11		1.6	0.57	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	61		1.6	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	220		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanesulfonic acid	0.46	J	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	23		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	8.2		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	7.9		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	11		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	40		4.0	3.4	ng/L	1		T-WI14355 r13	Total/NA
8:2 Fluorotelomer sulfonic acid	1.4	J	2.4	0.81	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: OUTFALL 001 2055

Lab Sample ID: 410-105783-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	14		2.4	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanesulfonic acid	1.1	J	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	6.8		4.0	1.6	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	0.80	J	2.4	0.80	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	8.5		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	6.8		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	16		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	1.3	J	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	23		1.6	0.72	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	4.6		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	4.0		1.6	0.56	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	40		1.6	0.80	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	130		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanesulfonic acid	0.49	J	1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	11		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: OUTFALL 001 2055 (Continued)

Lab Sample ID: 410-105783-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotetradecanoic acid	3.2		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	2.9		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	4.3		1.6	0.40	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	26		4.0	3.4	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: EB-US

Lab Sample ID: 410-105783-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.0	J	1.8	0.83	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: SW-MERR-101W 1905

Lab Sample ID: 410-105783-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.90	J	1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	1.0	J	1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	0.57	J	1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	1.6	J	1.9	0.85	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	0.95	J	1.9	0.94	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	2.4		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	1.7	J	1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: SW-MERR-101W 1945

Lab Sample ID: 410-105783-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.85	J	1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	0.96	J	1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	0.67	J	1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	1.4	J	1.9	0.85	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	1.1	J	1.9	0.95	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	2.5		1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	0.84	J	1.9	0.47	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: FB-DS

Lab Sample ID: 410-105783-34

No Detections.

Client Sample ID: RD-MB-SE 1750

Lab Sample ID: 410-105783-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	8.2	cn	2.6	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	100	cn	4.4	1.7	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	4.2	cn	2.6	0.87	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	16	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	5.1	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	77	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanesulfonic acid	2.1	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	140	cn	1.7	0.79	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	11	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	2.4	cn	1.7	0.61	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	38	cn	1.7	0.87	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	310	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	79	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	2.9	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	2.0	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-SE 1750 (Continued)

Lab Sample ID: 410-105783-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroundecanoic acid	5.2	cn	1.7	0.44	ng/L	1		T-WI14355 r13	Total/NA
6:2 Fluorotelomer sulfonic acid	18	cn	4.4	3.7	ng/L	1		T-WI14355 r13	Total/NA

Client Sample ID: RD-MB-SE 1945

Lab Sample ID: 410-105783-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NEtFOSAA	4.9		2.7	0.45	ng/L	1		T-WI14355 r13	Total/NA
Perfluorobutanoic acid	5.4		4.5	1.8	ng/L	1		T-WI14355 r13	Total/NA
HFPODA	1.4	J I	2.7	0.90	ng/L	1		T-WI14355 r13	Total/NA
Perfluorodecanoic acid	3.0		1.8	0.45	ng/L	1		T-WI14355 r13	Total/NA
Perfluorododecanoic acid	2.9		1.8	0.45	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroheptanoic acid	7.5		1.8	0.45	ng/L	1		T-WI14355 r13	Total/NA
Perfluorohexanoic acid	15		1.8	0.81	ng/L	1		T-WI14355 r13	Total/NA
Perfluorononanoic acid	1.7	J	1.8	0.45	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonamide	2.0		1.8	0.63	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanesulfonic acid	7.2		1.8	0.90	ng/L	1		T-WI14355 r13	Total/NA
Perfluorooctanoic acid	37		1.8	0.45	ng/L	1		T-WI14355 r13	Total/NA
Perfluoropentanoic acid	6.2		1.8	0.45	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotetradecanoic acid	1.7	J	1.8	0.45	ng/L	1		T-WI14355 r13	Total/NA
Perfluorotridecanoic acid	0.98	J	1.8	0.45	ng/L	1		T-WI14355 r13	Total/NA
Perfluoroundecanoic acid	1.1	J	1.8	0.45	ng/L	1		T-WI14355 r13	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-EB

Lab Sample ID: 410-105783-2

Date Collected: 11/11/22 17:00

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.43	U	2.6	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
NMeFOSAA	0.52	U	1.7	0.52	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorobutanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorobutanoic acid	1.7	U	4.3	1.7	ng/L		11/23/22 15:21	12/08/22 02:02	1
HFPODA	0.87	U	2.6	0.87	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorodecanoic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorododecanoic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
NEtFOSA	0.87	U	4.3	0.87	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluoroheptanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluoroheptanoic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorohexanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorohexanoic acid	0.78	U	1.7	0.78	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorononanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorononanoic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorooctanesulfonamide	0.61	U	1.7	0.61	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorooctanesulfonic acid	0.87	U	1.7	0.87	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorooctanoic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluoropentanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluoropentanoic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorotetradecanoic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluorotridecanoic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
Perfluoroundecanoic acid	0.43	U	1.7	0.43	ng/L		11/23/22 15:21	12/08/22 02:02	1
6:2 Fluorotelomer sulfonic acid	3.6	U	4.3	3.6	ng/L		11/23/22 15:21	12/08/22 02:02	1
8:2 Fluorotelomer sulfonic acid	0.87	U	2.6	0.87	ng/L		11/23/22 15:21	12/08/22 02:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	115		17 - 200	11/23/22 15:21	12/08/22 02:02	1
M2-8:2 FTS	103		33 - 200	11/23/22 15:21	12/08/22 02:02	1
13C2 PFTeDA	89		10 - 179	11/23/22 15:21	12/08/22 02:02	1
13C3 HFPO-DA	105		17 - 185	11/23/22 15:21	12/08/22 02:02	1
13C3 PFBS	215	*5+ cn	16 - 200	11/23/22 15:21	12/08/22 02:02	1
13C4 PFBA	103		42 - 165	11/23/22 15:21	12/08/22 02:02	1
13C4 PFHpA	110		31 - 182	11/23/22 15:21	12/08/22 02:02	1
13C5 PFPeA	210	*5+ cn	38 - 187	11/23/22 15:21	12/08/22 02:02	1
13C8 PFOA	108		48 - 162	11/23/22 15:21	12/08/22 02:02	1
13C8 PFOS	108		51 - 159	11/23/22 15:21	12/08/22 02:02	1
d5-NEtFOSAA	103		29 - 195	11/23/22 15:21	12/08/22 02:02	1
d9-N-EtFOSE-M	83		10 - 177	11/23/22 15:21	12/08/22 02:02	1
13C3 PFHxS	110		28 - 188	11/23/22 15:21	12/08/22 02:02	1
13C5 PFHxA	108		24 - 179	11/23/22 15:21	12/08/22 02:02	1
13C6 PFDA	103		49 - 163	11/23/22 15:21	12/08/22 02:02	1
13C7 PFUnA	105		34 - 174	11/23/22 15:21	12/08/22 02:02	1
d5-NEtPFOSA	77		10 - 159	11/23/22 15:21	12/08/22 02:02	1
13C8 FOSA	87		10 - 168	11/23/22 15:21	12/08/22 02:02	1
13C2-PFDoDA	95		17 - 176	11/23/22 15:21	12/08/22 02:02	1
13C9 PFNA	113		51 - 167	11/23/22 15:21	12/08/22 02:02	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-1 1740

Lab Sample ID: 410-105783-3

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	3.7		2.5	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
NMeFOSAA	0.51	U	1.7	0.51	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorobutanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorobutanoic acid	170		4.2	1.7	ng/L		11/25/22 14:50	12/11/22 14:07	1
HFPODA	11		2.5	0.84	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorodecanoic acid	64		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorododecanoic acid	20		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
NEtFOSA	0.84	U	4.2	0.84	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluoroheptanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluoroheptanoic acid	150		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorohexanesulfonic acid	2.2		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorohexanoic acid	320		1.7	0.76	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorononanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorononanoic acid	37		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorooctanesulfonamide	2.5		1.7	0.59	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorooctanesulfonic acid	45		1.7	0.84	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluoropentanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluoropentanoic acid	110		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorotetradecanoic acid	15		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluorotridecanoic acid	11		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
Perfluoroundecanoic acid	23		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 14:07	1
6:2 Fluorotelomer sulfonic acid	160		4.2	3.5	ng/L		11/25/22 14:50	12/11/22 14:07	1
8:2 Fluorotelomer sulfonic acid	2.0	J	2.5	0.84	ng/L		11/25/22 14:50	12/11/22 14:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	412	*5+ cn	17 - 200	11/25/22 14:50	12/11/22 14:07	1
M2-8:2 FTS	332	*5+ cn	33 - 200	11/25/22 14:50	12/11/22 14:07	1
13C2 PFTeDA	116		10 - 179	11/25/22 14:50	12/11/22 14:07	1
13C3 HFPO-DA	49		17 - 185	11/25/22 14:50	12/11/22 14:07	1
13C3 PFBS	476	*5+ cn	16 - 200	11/25/22 14:50	12/11/22 14:07	1
13C4 PFBA	61		42 - 165	11/25/22 14:50	12/11/22 14:07	1
13C4 PFHpA	74		31 - 182	11/25/22 14:50	12/11/22 14:07	1
13C5 PFPeA	116		38 - 187	11/25/22 14:50	12/11/22 14:07	1
13C8 PFOA	78		48 - 162	11/25/22 14:50	12/11/22 14:07	1
13C8 PFOS	94		51 - 159	11/25/22 14:50	12/11/22 14:07	1
d5-NEtFOSAA	100		29 - 195	11/25/22 14:50	12/11/22 14:07	1
d9-N-EtFOSE-M	48		10 - 177	11/25/22 14:50	12/11/22 14:07	1
13C3 PFHxS	187		28 - 188	11/25/22 14:50	12/11/22 14:07	1
13C5 PFHxA	55		24 - 179	11/25/22 14:50	12/11/22 14:07	1
13C6 PFDA	87		49 - 163	11/25/22 14:50	12/11/22 14:07	1
13C7 PFUnA	104		34 - 174	11/25/22 14:50	12/11/22 14:07	1
d5-NEtPFOSA	12		10 - 159	11/25/22 14:50	12/11/22 14:07	1
13C8 FOSA	46		10 - 168	11/25/22 14:50	12/11/22 14:07	1
13C2-PFDoDA	113		17 - 176	11/25/22 14:50	12/11/22 14:07	1
13C9 PFNA	54		51 - 167	11/25/22 14:50	12/11/22 14:07	1

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	660		17	4.2	ng/L		11/25/22 14:50	12/14/22 20:50	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-1 1740

Date Collected: 11/11/22 17:40

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-3

Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	107		48 - 162	11/25/22 14:50	12/14/22 20:50	10

Client Sample ID: RP-2 1800

Date Collected: 11/11/22 18:00

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-4

Matrix: Water

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	4.1	cn	2.9	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
NMeFOSAA	0.59	U cn	2.0	0.59	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorobutanesulfonic acid	8.9	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorobutanoic acid	200	cn	4.9	2.0	ng/L		11/25/22 14:50	12/11/22 14:19	1
HFPODA	16	cn	2.9	0.98	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorodecanoic acid	250	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorododecanoic acid	140	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
NEtFOSA	0.98	U cn	4.9	0.98	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluoroheptanesulfonic acid	0.49	U cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluoroheptanoic acid	380	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorohexanesulfonic acid	2.9	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorononanesulfonic acid	0.49	U cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorononanoic acid	140	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorooctanesulfonamide	5.0	cn	2.0	0.68	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorooctanesulfonic acid	41	cn	2.0	0.98	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluoropentanesulfonic acid	0.49	U cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluoropentanoic acid	240	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorotetradecanoic acid	28	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluorotridecanoic acid	39	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
Perfluoroundecanoic acid	110	cn	2.0	0.49	ng/L		11/25/22 14:50	12/11/22 14:19	1
8:2 Fluorotelomer sulfonic acid	5.3	cn	2.9	0.98	ng/L		11/25/22 14:50	12/11/22 14:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	283	*5+ cn	17 - 200				11/25/22 14:50	12/11/22 14:19	1
M2-8:2 FTS	252	*5+ cn	33 - 200				11/25/22 14:50	12/11/22 14:19	1
13C2 PFTeDA	92	cn	10 - 179				11/25/22 14:50	12/11/22 14:19	1
13C3 HFPO-DA	48	cn	17 - 185				11/25/22 14:50	12/11/22 14:19	1
13C3 PFBS	374	*5+ cn	16 - 200				11/25/22 14:50	12/11/22 14:19	1
13C4 PFBA	62	cn	42 - 165				11/25/22 14:50	12/11/22 14:19	1
13C4 PFHpA	68	cn	31 - 182				11/25/22 14:50	12/11/22 14:19	1
13C5 PFPeA	106	cn	38 - 187				11/25/22 14:50	12/11/22 14:19	1
13C8 PFOA	64	cn	48 - 162				11/25/22 14:50	12/11/22 14:19	1
13C8 PFOS	94	cn	51 - 159				11/25/22 14:50	12/11/22 14:19	1
d5-NEtFOSAA	92	cn	29 - 195				11/25/22 14:50	12/11/22 14:19	1
d9-N-EtFOSE-M	32	cn	10 - 177				11/25/22 14:50	12/11/22 14:19	1
13C3 PFHxS	152	cn	28 - 188				11/25/22 14:50	12/11/22 14:19	1
13C5 PFHxA	52	cn	24 - 179				11/25/22 14:50	12/11/22 14:19	1
13C6 PFDA	77	cn	49 - 163				11/25/22 14:50	12/11/22 14:19	1
13C7 PFUnA	90	cn	34 - 174				11/25/22 14:50	12/11/22 14:19	1
d5-NEtPFOSA	9	*5- cn	10 - 159				11/25/22 14:50	12/11/22 14:19	1
13C8 FOSA	38	cn	10 - 168				11/25/22 14:50	12/11/22 14:19	1
13C2-PFDoDA	88	cn	17 - 176				11/25/22 14:50	12/11/22 14:19	1
13C9 PFNA	58	cn	51 - 167				11/25/22 14:50	12/11/22 14:19	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-2 1800

Lab Sample ID: 410-105783-4

Date Collected: 11/11/22 18:00

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	710	cn	20	8.8	ng/L		11/25/22 14:50	12/14/22 21:12	10
Perfluorooctanoic acid	1200	cn	20	4.9	ng/L		11/25/22 14:50	12/14/22 21:12	10
6:2 Fluorotelomer sulfonic acid	540	cn	49	41	ng/L		11/25/22 14:50	12/14/22 21:12	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	193	cn	17 - 200				11/25/22 14:50	12/14/22 21:12	10
13C8 PFOA	98	cn	48 - 162				11/25/22 14:50	12/14/22 21:12	10
13C5 PFHxA	95	cn	24 - 179				11/25/22 14:50	12/14/22 21:12	10

Client Sample ID: RP-3 1815

Lab Sample ID: 410-105783-5

Date Collected: 11/11/22 18:15

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	170	cn	26	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
NMeFOSAA	5.1	U cn	17	5.1	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorobutanesulfonic acid	14	J cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorobutanoic acid	230	cn	43	17	ng/L		11/25/22 14:50	12/14/22 21:24	10
HFPODA	15	J I cn	26	8.5	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorodecanoic acid	180	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorododecanoic acid	94	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
NEtFOSA	8.5	U cn	43	8.5	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluoroheptanesulfonic acid	19	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluoroheptanoic acid	1800	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorohexanesulfonic acid	72	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorohexanoic acid	1300	cn	17	7.7	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorononanesulfonic acid	4.3	U cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorononanoic acid	190	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorooctanesulfonamide	71	cn	17	6.0	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorooctanesulfonic acid	1900	cn	17	8.5	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluoropentanesulfonic acid	17	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluoropentanoic acid	420	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorotetradecanoic acid	68	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluorotridecanoic acid	55	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
Perfluoroundecanoic acid	89	cn	17	4.3	ng/L		11/25/22 14:50	12/14/22 21:24	10
6:2 Fluorotelomer sulfonic acid	1400	cn	43	36	ng/L		11/25/22 14:50	12/14/22 21:24	10
8:2 Fluorotelomer sulfonic acid	24	J cn	26	8.5	ng/L		11/25/22 14:50	12/14/22 21:24	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	136	cn	17 - 200				11/25/22 14:50	12/14/22 21:24	10
M2-8:2 FTS	126	cn	33 - 200				11/25/22 14:50	12/14/22 21:24	10
13C2 PFTeDA	72	cn	10 - 179				11/25/22 14:50	12/14/22 21:24	10
13C3 HFPO-DA	77	cn	17 - 185				11/25/22 14:50	12/14/22 21:24	10
13C3 PFBS	151	cn	16 - 200				11/25/22 14:50	12/14/22 21:24	10
13C4 PFBA	101	cn	42 - 165				11/25/22 14:50	12/14/22 21:24	10
13C4 PFHpA	119	cn	31 - 182				11/25/22 14:50	12/14/22 21:24	10
13C5 PFPeA	120	cn	38 - 187				11/25/22 14:50	12/14/22 21:24	10
13C8 PFOA	93	cn	48 - 162				11/25/22 14:50	12/14/22 21:24	10
13C8 PFOS	118	cn	51 - 159				11/25/22 14:50	12/14/22 21:24	10
d5-NEtFOSAA	89	cn	29 - 195				11/25/22 14:50	12/14/22 21:24	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-3 1815

Lab Sample ID: 410-105783-5

Date Collected: 11/11/22 18:15

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	42	cn	10 - 177	11/25/22 14:50	12/14/22 21:24	10
13C3 PFHxS	130	cn	28 - 188	11/25/22 14:50	12/14/22 21:24	10
13C5 PFHxA	109	cn	24 - 179	11/25/22 14:50	12/14/22 21:24	10
13C6 PFDA	98	cn	49 - 163	11/25/22 14:50	12/14/22 21:24	10
13C7 PFUnA	95	cn	34 - 174	11/25/22 14:50	12/14/22 21:24	10
d5-NEtPFOSA	10	cn	10 - 159	11/25/22 14:50	12/14/22 21:24	10
13C8 FOSA	60	cn	10 - 168	11/25/22 14:50	12/14/22 21:24	10
13C2-PFDoDA	95	cn	17 - 176	11/25/22 14:50	12/14/22 21:24	10
13C9 PFNA	124	cn	51 - 167	11/25/22 14:50	12/14/22 21:24	10

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	7000		170	43	ng/L		11/25/22 14:50	12/14/22 21:35	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	121		48 - 162				11/25/22 14:50	12/14/22 21:35	100

Client Sample ID: RP-4 1835

Lab Sample ID: 410-105783-6

Date Collected: 11/11/22 18:35

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.43	U cn	2.6	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
NMeFOSAA	0.52	U cn	1.7	0.52	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorobutanesulfonic acid	0.56	J cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorobutanoic acid	22	cn	4.3	1.7	ng/L		11/25/22 14:50	12/14/22 21:46	1
HFPODA	0.86	U cn	2.6	0.86	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorodecanoic acid	5.6	cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorododecanoic acid	1.4	J cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
NEtFOSA	0.86	U cn	4.3	0.86	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluoroheptanesulfonic acid	0.43	U cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluoroheptanoic acid	13	cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorohexanesulfonic acid	0.92	J cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorohexanoic acid	27	cn	1.7	0.78	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorononanesulfonic acid	0.43	U cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorononanoic acid	3.6	cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorooctanesulfonamide	0.79	J cn	1.7	0.60	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorooctanesulfonic acid	11	cn	1.7	0.86	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorooctanoic acid	79	cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluoropentanesulfonic acid	0.43	U cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluoropentanoic acid	6.1	cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorotetradecanoic acid	0.97	J cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluorotridecanoic acid	0.54	J cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
Perfluoroundecanoic acid	1.3	J cn	1.7	0.43	ng/L		11/25/22 14:50	12/14/22 21:46	1
6:2 Fluorotelomer sulfonic acid	8.9	cn	4.3	3.6	ng/L		11/25/22 14:50	12/14/22 21:46	1
8:2 Fluorotelomer sulfonic acid	0.86	U cn	2.6	0.86	ng/L		11/25/22 14:50	12/14/22 21:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	188	cn	17 - 200				11/25/22 14:50	12/14/22 21:46	1
M2-8:2 FTS	129	cn	33 - 200				11/25/22 14:50	12/14/22 21:46	1
13C2 PFTeDA	69	cn	10 - 179				11/25/22 14:50	12/14/22 21:46	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-4 1835

Lab Sample ID: 410-105783-6

Date Collected: 11/11/22 18:35

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	58	cn	17 - 185	11/25/22 14:50	12/14/22 21:46	1
13C3 PFBS	225	*5+ cn	16 - 200	11/25/22 14:50	12/14/22 21:46	1
13C4 PFBA	67	cn	42 - 165	11/25/22 14:50	12/14/22 21:46	1
13C4 PFHpA	80	cn	31 - 182	11/25/22 14:50	12/14/22 21:46	1
13C5 PFPeA	131	cn	38 - 187	11/25/22 14:50	12/14/22 21:46	1
13C8 PFOA	76	cn	48 - 162	11/25/22 14:50	12/14/22 21:46	1
13C8 PFOS	89	cn	51 - 159	11/25/22 14:50	12/14/22 21:46	1
d5-NEtFOSAA	80	cn	29 - 195	11/25/22 14:50	12/14/22 21:46	1
d9-N-EtFOSE-M	12	cn	10 - 177	11/25/22 14:50	12/14/22 21:46	1
13C3 PFHxS	94	cn	28 - 188	11/25/22 14:50	12/14/22 21:46	1
13C5 PFHxA	70	cn	24 - 179	11/25/22 14:50	12/14/22 21:46	1
13C6 PFDA	88	cn	49 - 163	11/25/22 14:50	12/14/22 21:46	1
13C7 PFUnA	82	cn	34 - 174	11/25/22 14:50	12/14/22 21:46	1
d5-NEtPFOSA	4	*5- cn	10 - 159	11/25/22 14:50	12/14/22 21:46	1
13C8 FOSA	33	cn	10 - 168	11/25/22 14:50	12/14/22 21:46	1
13C2-PFDoDA	90	cn	17 - 176	11/25/22 14:50	12/14/22 21:46	1
13C9 PFNA	90	cn	51 - 167	11/25/22 14:50	12/14/22 21:46	1

Client Sample ID: RP-1 2020

Lab Sample ID: 410-105783-7

Date Collected: 11/11/22 20:20

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.82	J cn	2.5	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
NMeFOSAA	0.49	U cn	1.6	0.49	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorobutanesulfonic acid	0.45	J cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorobutanoic acid	1.6	U cn	4.1	1.6	ng/L		11/25/22 14:50	12/11/22 15:03	1
HFPODA	0.82	U cn	2.5	0.82	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorodecanoic acid	3.9	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorododecanoic acid	2.7	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
NEtFOSA	0.82	U cn	4.1	0.82	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluoroheptanesulfonic acid	0.41	U cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluoroheptanoic acid	4.7	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorohexanesulfonic acid	0.41	U cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorohexanoic acid	8.6	cn	1.6	0.74	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorononanesulfonic acid	0.41	U cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorononanoic acid	2.5	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorooctanesulfonamide	0.58	U cn	1.6	0.58	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorooctanesulfonic acid	7.4	cn	1.6	0.82	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorooctanoic acid	33	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluoropentanesulfonic acid	0.41	U cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluoropentanoic acid	3.2	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorotetradecanoic acid	4.6	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluorotridecanoic acid	1.9	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
Perfluoroundecanoic acid	1.4	J cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:03	1
6:2 Fluorotelomer sulfonic acid	13	cn	4.1	3.5	ng/L		11/25/22 14:50	12/11/22 15:03	1
8:2 Fluorotelomer sulfonic acid	0.82	U cn	2.5	0.82	ng/L		11/25/22 14:50	12/11/22 15:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	246	*5+ cn	17 - 200				11/25/22 14:50	12/11/22 15:03	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-1 2020

Lab Sample ID: 410-105783-7

Date Collected: 11/11/22 20:20

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	214	*5+ cn	33 - 200	11/25/22 14:50	12/11/22 15:03	1
13C2 PFTeDA	63	cn	10 - 179	11/25/22 14:50	12/11/22 15:03	1
13C3 HFPO-DA	64	cn	17 - 185	11/25/22 14:50	12/11/22 15:03	1
13C3 PFBS	528	*5+ cn	16 - 200	11/25/22 14:50	12/11/22 15:03	1
13C4 PFBA	72	cn	42 - 165	11/25/22 14:50	12/11/22 15:03	1
13C4 PFHpA	82	cn	31 - 182	11/25/22 14:50	12/11/22 15:03	1
13C5 PFPeA	384	*5+ cn	38 - 187	11/25/22 14:50	12/11/22 15:03	1
13C8 PFOA	88	cn	48 - 162	11/25/22 14:50	12/11/22 15:03	1
13C8 PFOS	96	cn	51 - 159	11/25/22 14:50	12/11/22 15:03	1
d5-NEtFOSAA	97	cn	29 - 195	11/25/22 14:50	12/11/22 15:03	1
d9-N-EtFOSE-M	20	cn	10 - 177	11/25/22 14:50	12/11/22 15:03	1
13C3 PFHxS	100	cn	28 - 188	11/25/22 14:50	12/11/22 15:03	1
13C5 PFHxA	88	cn	24 - 179	11/25/22 14:50	12/11/22 15:03	1
13C6 PFDA	82	cn	49 - 163	11/25/22 14:50	12/11/22 15:03	1
13C7 PFUnA	86	cn	34 - 174	11/25/22 14:50	12/11/22 15:03	1
d5-NEtPFOSA	25	cn	10 - 159	11/25/22 14:50	12/11/22 15:03	1
13C8 FOSA	72	cn	10 - 168	11/25/22 14:50	12/11/22 15:03	1
13C2-PFDoDA	75	cn	17 - 176	11/25/22 14:50	12/11/22 15:03	1
13C9 PFNA	87	cn	51 - 167	11/25/22 14:50	12/11/22 15:03	1

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - RA

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	152	cn	17 - 200	11/25/22 14:50	12/14/22 22:08	1
M2-8:2 FTS	126	cn	33 - 200	11/25/22 14:50	12/14/22 22:08	1
13C2 PFTeDA	73	cn	10 - 179	11/25/22 14:50	12/14/22 22:08	1
13C3 HFPO-DA	80	cn	17 - 185	11/25/22 14:50	12/14/22 22:08	1
13C3 PFBS	492	*5+ cn	16 - 200	11/25/22 14:50	12/14/22 22:08	1
13C4 PFBA	88	cn	42 - 165	11/25/22 14:50	12/14/22 22:08	1
13C4 PFHpA	89	cn	31 - 182	11/25/22 14:50	12/14/22 22:08	1
13C5 PFPeA	465	*5+ cn	38 - 187	11/25/22 14:50	12/14/22 22:08	1
13C8 PFOA	87	cn	48 - 162	11/25/22 14:50	12/14/22 22:08	1
13C8 PFOS	96	cn	51 - 159	11/25/22 14:50	12/14/22 22:08	1
d5-NEtFOSAA	90	cn	29 - 195	11/25/22 14:50	12/14/22 22:08	1
d9-N-EtFOSE-M	22	cn	10 - 177	11/25/22 14:50	12/14/22 22:08	1
13C3 PFHxS	92	cn	28 - 188	11/25/22 14:50	12/14/22 22:08	1
13C5 PFHxA	87	cn	24 - 179	11/25/22 14:50	12/14/22 22:08	1
13C6 PFDA	92	cn	49 - 163	11/25/22 14:50	12/14/22 22:08	1
13C7 PFUnA	89	cn	34 - 174	11/25/22 14:50	12/14/22 22:08	1
d5-NEtPFOSA	27	cn	10 - 159	11/25/22 14:50	12/14/22 22:08	1
13C8 FOSA	71	cn	10 - 168	11/25/22 14:50	12/14/22 22:08	1
13C2-PFDoDA	87	cn	17 - 176	11/25/22 14:50	12/14/22 22:08	1
13C9 PFNA	104	cn	51 - 167	11/25/22 14:50	12/14/22 22:08	1

Client Sample ID: RP-2 2025

Lab Sample ID: 410-105783-8

Date Collected: 11/11/22 20:25

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	1.2	J cn	2.5	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-2 2025

Lab Sample ID: 410-105783-8

Date Collected: 11/11/22 20:25

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	0.49	U cn	1.6	0.49	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorobutanesulfonic acid	1.2	J cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorobutanoic acid	9.1	cn	4.1	1.6	ng/L		11/25/22 14:50	12/11/22 15:14	1
HFPODA	1.3	J I cn	2.5	0.82	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorodecanoic acid	37	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorododecanoic acid	24	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
NEtFOSA	0.82	U cn	4.1	0.82	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluoroheptanesulfonic acid	0.41	U cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluoroheptanoic acid	24	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorohexanesulfonic acid	0.41	U cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorohexanoic acid	44	cn	1.6	0.74	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorononanesulfonic acid	0.41	U cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorononanoic acid	16	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorooctanesulfonamide	1.1	J cn	1.6	0.57	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorooctanesulfonic acid	8.0	cn	1.6	0.82	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorooctanoic acid	130	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluoropentanesulfonic acid	0.41	U cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluoropentanoic acid	13	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorotetradecanoic acid	15	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluorotridecanoic acid	12	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
Perfluoroundecanoic acid	14	cn	1.6	0.41	ng/L		11/25/22 14:50	12/11/22 15:14	1
6:2 Fluorotelomer sulfonic acid	42	cn	4.1	3.4	ng/L		11/25/22 14:50	12/11/22 15:14	1
8:2 Fluorotelomer sulfonic acid	0.88	J cn	2.5	0.82	ng/L		11/25/22 14:50	12/11/22 15:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	263	*5+ cn	17 - 200	11/25/22 14:50	12/11/22 15:14	1
M2-8:2 FTS	266	*5+ cn	33 - 200	11/25/22 14:50	12/11/22 15:14	1
13C2 PFTeDA	77	cn	10 - 179	11/25/22 14:50	12/11/22 15:14	1
13C3 HFPO-DA	58	cn	17 - 185	11/25/22 14:50	12/11/22 15:14	1
13C3 PFBS	218	*5+ cn	16 - 200	11/25/22 14:50	12/11/22 15:14	1
13C4 PFBA	79	cn	42 - 165	11/25/22 14:50	12/11/22 15:14	1
13C4 PFHpA	81	cn	31 - 182	11/25/22 14:50	12/11/22 15:14	1
13C5 PFPeA	160	cn	38 - 187	11/25/22 14:50	12/11/22 15:14	1
13C8 PFOA	79	cn	48 - 162	11/25/22 14:50	12/11/22 15:14	1
13C8 PFOS	94	cn	51 - 159	11/25/22 14:50	12/11/22 15:14	1
d5-NEtFOSAA	102	cn	29 - 195	11/25/22 14:50	12/11/22 15:14	1
d9-N-EtFOSE-M	14	cn	10 - 177	11/25/22 14:50	12/11/22 15:14	1
13C3 PFHxS	106	cn	28 - 188	11/25/22 14:50	12/11/22 15:14	1
13C5 PFHxA	86	cn	24 - 179	11/25/22 14:50	12/11/22 15:14	1
13C6 PFDA	91	cn	49 - 163	11/25/22 14:50	12/11/22 15:14	1
13C7 PFUnA	82	cn	34 - 174	11/25/22 14:50	12/11/22 15:14	1
d5-NEtPFOSA	10	cn	10 - 159	11/25/22 14:50	12/11/22 15:14	1
13C8 FOSA	80	cn	10 - 168	11/25/22 14:50	12/11/22 15:14	1
13C2-PFDoDA	79	cn	17 - 176	11/25/22 14:50	12/11/22 15:14	1
13C9 PFNA	83	cn	51 - 167	11/25/22 14:50	12/11/22 15:14	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-3 2035

Lab Sample ID: 410-105783-9

Date Collected: 11/11/22 20:35

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	6.0		2.5	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
NMeFOSAA	0.50	U	1.7	0.50	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorobutanesulfonic acid	0.41	U	1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorobutanoic acid	2.0	J	4.1	1.7	ng/L		11/25/22 14:50	12/11/22 15:25	1
HFPODA	0.83	U	2.5	0.83	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorodecanoic acid	3.6		1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorododecanoic acid	6.6		1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
NEtFOSA	0.83	U	4.1	0.83	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluoroheptanesulfonic acid	0.41	U	1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluoroheptanoic acid	8.1		1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorohexanesulfonic acid	0.53	J	1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorohexanoic acid	5.9		1.7	0.75	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorononanesulfonic acid	0.41	U	1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorononanoic acid	2.1		1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorooctanesulfonamide	2.3		1.7	0.58	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorooctanesulfonic acid	29		1.7	0.83	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorooctanoic acid	71		1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluoropentanesulfonic acid	0.41	U	1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluoropentanoic acid	2.0		1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorotetradecanoic acid	9.5		1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluorotridecanoic acid	6.3		1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
Perfluoroundecanoic acid	3.0		1.7	0.41	ng/L		11/25/22 14:50	12/11/22 15:25	1
6:2 Fluorotelomer sulfonic acid	14		4.1	3.5	ng/L		11/25/22 14:50	12/11/22 15:25	1
8:2 Fluorotelomer sulfonic acid	0.83	U	2.5	0.83	ng/L		11/25/22 14:50	12/11/22 15:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	198		17 - 200	11/25/22 14:50	12/11/22 15:25	1
M2-8:2 FTS	204	*5+ cn	33 - 200	11/25/22 14:50	12/11/22 15:25	1
13C2 PFTeDA	55		10 - 179	11/25/22 14:50	12/11/22 15:25	1
13C3 HFPO-DA	65		17 - 185	11/25/22 14:50	12/11/22 15:25	1
13C3 PFBS	298	*5+ cn	16 - 200	11/25/22 14:50	12/11/22 15:25	1
13C4 PFBA	85		42 - 165	11/25/22 14:50	12/11/22 15:25	1
13C4 PFHpA	81		31 - 182	11/25/22 14:50	12/11/22 15:25	1
13C5 PFPeA	208	*5+ cn	38 - 187	11/25/22 14:50	12/11/22 15:25	1
13C8 PFOA	87		48 - 162	11/25/22 14:50	12/11/22 15:25	1
13C8 PFOS	98		51 - 159	11/25/22 14:50	12/11/22 15:25	1
d5-NEtFOSAA	98		29 - 195	11/25/22 14:50	12/11/22 15:25	1
d9-N-EtFOSE-M	40		10 - 177	11/25/22 14:50	12/11/22 15:25	1
13C3 PFHxS	97		28 - 188	11/25/22 14:50	12/11/22 15:25	1
13C5 PFHxA	86		24 - 179	11/25/22 14:50	12/11/22 15:25	1
13C6 PFDA	94		49 - 163	11/25/22 14:50	12/11/22 15:25	1
13C7 PFUnA	86		34 - 174	11/25/22 14:50	12/11/22 15:25	1
d5-NEtPFOSA	43		10 - 159	11/25/22 14:50	12/11/22 15:25	1
13C8 FOSA	72		10 - 168	11/25/22 14:50	12/11/22 15:25	1
13C2-PFDoDA	74		17 - 176	11/25/22 14:50	12/11/22 15:25	1
13C9 PFNA	89		51 - 167	11/25/22 14:50	12/11/22 15:25	1

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - RA

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	137		17 - 200	11/25/22 14:50	12/14/22 22:30	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-3 2035

Lab Sample ID: 410-105783-9

Date Collected: 11/11/22 20:35

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - RA (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	140	cn	33 - 200	11/25/22 14:50	12/14/22 22:30	1
13C2 PFTeDA	72		10 - 179	11/25/22 14:50	12/14/22 22:30	1
13C3 HFPO-DA	62		17 - 185	11/25/22 14:50	12/14/22 22:30	1
13C3 PFBS	217	*5+ cn	16 - 200	11/25/22 14:50	12/14/22 22:30	1
13C4 PFBA	88		42 - 165	11/25/22 14:50	12/14/22 22:30	1
13C4 PFHpA	92		31 - 182	11/25/22 14:50	12/14/22 22:30	1
13C5 PFPeA	223	*5+ cn	38 - 187	11/25/22 14:50	12/14/22 22:30	1
13C8 PFOA	82		48 - 162	11/25/22 14:50	12/14/22 22:30	1
13C8 PFOS	94		51 - 159	11/25/22 14:50	12/14/22 22:30	1
d5-NEtFOSAA	98		29 - 195	11/25/22 14:50	12/14/22 22:30	1
d9-N-EtFOSE-M	48		10 - 177	11/25/22 14:50	12/14/22 22:30	1
13C3 PFHxS	88		28 - 188	11/25/22 14:50	12/14/22 22:30	1
13C5 PFHxA	93		24 - 179	11/25/22 14:50	12/14/22 22:30	1
13C6 PFDA	92		49 - 163	11/25/22 14:50	12/14/22 22:30	1
13C7 PFUnA	92		34 - 174	11/25/22 14:50	12/14/22 22:30	1
d5-NEtPFOSA	48		10 - 159	11/25/22 14:50	12/14/22 22:30	1
13C8 FOSA	67		10 - 168	11/25/22 14:50	12/14/22 22:30	1
13C2-PFDoDA	82		17 - 176	11/25/22 14:50	12/14/22 22:30	1
13C9 PFNA	104		51 - 167	11/25/22 14:50	12/14/22 22:30	1

Client Sample ID: RP-4 2045

Lab Sample ID: 410-105783-10

Date Collected: 11/11/22 20:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.42	U	2.5	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
NMeFOSAA	0.50	U	1.7	0.50	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorobutanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorobutanoic acid	1.7	U	4.2	1.7	ng/L		11/25/22 14:50	12/11/22 15:36	1
HFPODA	0.83	U	2.5	0.83	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorodecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorododecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
NEtFOSA	0.83	U	4.2	0.83	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluoroheptanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluoroheptanoic acid	1.9		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorohexanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorohexanoic acid	2.8		1.7	0.75	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorononanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorononanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorooctanesulfonamide	0.58	U	1.7	0.58	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorooctanesulfonic acid	0.83	U	1.7	0.83	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorooctanoic acid	5.4		1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluoropentanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluoropentanoic acid	0.93	J	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorotetradecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluorotridecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
Perfluoroundecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:36	1
6:2 Fluorotelomer sulfonic acid	3.5	U	4.2	3.5	ng/L		11/25/22 14:50	12/11/22 15:36	1
8:2 Fluorotelomer sulfonic acid	0.83	U	2.5	0.83	ng/L		11/25/22 14:50	12/11/22 15:36	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-4 2045

Lab Sample ID: 410-105783-10

Date Collected: 11/11/22 20:45

Matrix: Water

Date Received: 11/15/22 10:08

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	183		17 - 200	11/25/22 14:50	12/11/22 15:36	1
M2-8:2 FTS	149		33 - 200	11/25/22 14:50	12/11/22 15:36	1
13C2 PFTeDA	63		10 - 179	11/25/22 14:50	12/11/22 15:36	1
13C3 HFPO-DA	63		17 - 185	11/25/22 14:50	12/11/22 15:36	1
13C3 PFBS	588	*5+	16 - 200	11/25/22 14:50	12/11/22 15:36	1
13C4 PFBA	85	cn	42 - 165	11/25/22 14:50	12/11/22 15:36	1
13C4 PFHpA	81		31 - 182	11/25/22 14:50	12/11/22 15:36	1
13C5 PFPeA	468	*5+ cn	38 - 187	11/25/22 14:50	12/11/22 15:36	1
13C8 PFOA	88		48 - 162	11/25/22 14:50	12/11/22 15:36	1
13C8 PFOS	98		51 - 159	11/25/22 14:50	12/11/22 15:36	1
d5-NEtFOSAA	96		29 - 195	11/25/22 14:50	12/11/22 15:36	1
d9-N-EtFOSE-M	16		10 - 177	11/25/22 14:50	12/11/22 15:36	1
13C3 PFHxS	100		28 - 188	11/25/22 14:50	12/11/22 15:36	1
13C5 PFHxA	86		24 - 179	11/25/22 14:50	12/11/22 15:36	1
13C6 PFDA	83		49 - 163	11/25/22 14:50	12/11/22 15:36	1
13C7 PFUnA	83		34 - 174	11/25/22 14:50	12/11/22 15:36	1
d5-NEtPFOSA	23		10 - 159	11/25/22 14:50	12/11/22 15:36	1
13C8 FOSA	72		10 - 168	11/25/22 14:50	12/11/22 15:36	1
13C2-PFDoDA	68		17 - 176	11/25/22 14:50	12/11/22 15:36	1
13C9 PFNA	87		51 - 167	11/25/22 14:50	12/11/22 15:36	1

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - RA

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	135		17 - 200	11/25/22 14:50	12/14/22 22:41	1
M2-8:2 FTS	107		33 - 200	11/25/22 14:50	12/14/22 22:41	1
13C2 PFTeDA	60		10 - 179	11/25/22 14:50	12/14/22 22:41	1
13C3 HFPO-DA	69		17 - 185	11/25/22 14:50	12/14/22 22:41	1
13C3 PFBS	433	*5+	16 - 200	11/25/22 14:50	12/14/22 22:41	1
13C4 PFBA	81	cn	42 - 165	11/25/22 14:50	12/14/22 22:41	1
13C4 PFHpA	85		31 - 182	11/25/22 14:50	12/14/22 22:41	1
13C5 PFPeA	420	*5+ cn	38 - 187	11/25/22 14:50	12/14/22 22:41	1
13C8 PFOA	88		48 - 162	11/25/22 14:50	12/14/22 22:41	1
13C8 PFOS	94		51 - 159	11/25/22 14:50	12/14/22 22:41	1
d5-NEtFOSAA	89		29 - 195	11/25/22 14:50	12/14/22 22:41	1
d9-N-EtFOSE-M	17		10 - 177	11/25/22 14:50	12/14/22 22:41	1
13C3 PFHxS	88		28 - 188	11/25/22 14:50	12/14/22 22:41	1
13C5 PFHxA	93		24 - 179	11/25/22 14:50	12/14/22 22:41	1
13C6 PFDA	83		49 - 163	11/25/22 14:50	12/14/22 22:41	1
13C7 PFUnA	84		34 - 174	11/25/22 14:50	12/14/22 22:41	1
d5-NEtPFOSA	25		10 - 159	11/25/22 14:50	12/14/22 22:41	1
13C8 FOSA	68		10 - 168	11/25/22 14:50	12/14/22 22:41	1
13C2-PFDoDA	79		17 - 176	11/25/22 14:50	12/14/22 22:41	1
13C9 PFNA	115		51 - 167	11/25/22 14:50	12/14/22 22:41	1

Client Sample ID: EB-DS

Lab Sample ID: 410-105783-11

Date Collected: 11/11/22 16:15

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.42	U	2.5	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: EB-DS

Lab Sample ID: 410-105783-11

Date Collected: 11/11/22 16:15

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	0.50	U	1.7	0.50	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorobutanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorobutanoic acid	1.7	U	4.2	1.7	ng/L		11/25/22 14:50	12/11/22 15:47	1
HFPODA	0.83	U	2.5	0.83	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorodecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorododecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
NEtFOSA	0.83	U	4.2	0.83	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluoroheptanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluoroheptanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorohexanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorohexanoic acid	0.75	U	1.7	0.75	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorononanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorononanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorooctanesulfonamide	0.58	U	1.7	0.58	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorooctanesulfonic acid	0.83	U	1.7	0.83	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorooctanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluoropentanesulfonic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluoropentanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorotetradecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluorotridecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
Perfluoroundecanoic acid	0.42	U	1.7	0.42	ng/L		11/25/22 14:50	12/11/22 15:47	1
6:2 Fluorotelomer sulfonic acid	3.5	U	4.2	3.5	ng/L		11/25/22 14:50	12/11/22 15:47	1
8:2 Fluorotelomer sulfonic acid	0.83	U	2.5	0.83	ng/L		11/25/22 14:50	12/11/22 15:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	116		17 - 200	11/25/22 14:50	12/11/22 15:47	1
M2-8:2 FTS	102		33 - 200	11/25/22 14:50	12/11/22 15:47	1
13C2 PFTeDA	94		10 - 179	11/25/22 14:50	12/11/22 15:47	1
13C3 HFPO-DA	67		17 - 185	11/25/22 14:50	12/11/22 15:47	1
13C3 PFBS	104		16 - 200	11/25/22 14:50	12/11/22 15:47	1
13C4 PFBA	89		42 - 165	11/25/22 14:50	12/11/22 15:47	1
13C4 PFHpA	101		31 - 182	11/25/22 14:50	12/11/22 15:47	1
13C5 PFPeA	87		38 - 187	11/25/22 14:50	12/11/22 15:47	1
13C8 PFOA	94		48 - 162	11/25/22 14:50	12/11/22 15:47	1
13C8 PFOS	101		51 - 159	11/25/22 14:50	12/11/22 15:47	1
d5-NEtFOSAA	96		29 - 195	11/25/22 14:50	12/11/22 15:47	1
d9-N-EtFOSE-M	78		10 - 177	11/25/22 14:50	12/11/22 15:47	1
13C3 PFHxS	103		28 - 188	11/25/22 14:50	12/11/22 15:47	1
13C5 PFHxA	99		24 - 179	11/25/22 14:50	12/11/22 15:47	1
13C6 PFDA	85		49 - 163	11/25/22 14:50	12/11/22 15:47	1
13C7 PFUnA	93		34 - 174	11/25/22 14:50	12/11/22 15:47	1
d5-NEtPFOSA	75		10 - 159	11/25/22 14:50	12/11/22 15:47	1
13C8 FOSA	78		10 - 168	11/25/22 14:50	12/11/22 15:47	1
13C2-PFDoDA	89		17 - 176	11/25/22 14:50	12/11/22 15:47	1
13C9 PFNA	83		51 - 167	11/25/22 14:50	12/11/22 15:47	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: SW-MERR-202W 1905

Lab Sample ID: 410-105783-12

Date Collected: 11/11/22 19:05

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.41	U	2.4	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
NMeFOSAA	0.49	U	1.6	0.49	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorobutanesulfonic acid	0.99	J	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorobutanoic acid	1.6	U	4.1	1.6	ng/L		11/25/22 14:50	12/14/22 22:52	1
HFPODA	0.81	U	2.4	0.81	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorodecanoic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorododecanoic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
NEtFOSA	0.81	U	4.1	0.81	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluoroheptanesulfonic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluoroheptanoic acid	0.79	J	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorohexanesulfonic acid	0.51	J	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorohexanoic acid	1.6		1.6	0.73	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorononanesulfonic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorononanoic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorooctanesulfonamide	0.57	U	1.6	0.57	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorooctanesulfonic acid	1.1	J	1.6	0.81	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorooctanoic acid	1.9		1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluoropentanesulfonic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluoropentanoic acid	1.1	J	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorotetradecanoic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluorotridecanoic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
Perfluoroundecanoic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:50	12/14/22 22:52	1
6:2 Fluorotelomer sulfonic acid	3.4	U	4.1	3.4	ng/L		11/25/22 14:50	12/14/22 22:52	1
8:2 Fluorotelomer sulfonic acid	0.81	U	2.4	0.81	ng/L		11/25/22 14:50	12/14/22 22:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	140		17 - 200	11/25/22 14:50	12/14/22 22:52	1
M2-8:2 FTS	96		33 - 200	11/25/22 14:50	12/14/22 22:52	1
13C2 PFTeDA	67		10 - 179	11/25/22 14:50	12/14/22 22:52	1
13C3 HFPO-DA	77		17 - 185	11/25/22 14:50	12/14/22 22:52	1
13C3 PFBS	176		16 - 200	11/25/22 14:50	12/14/22 22:52	1
13C4 PFBA	92		42 - 165	11/25/22 14:50	12/14/22 22:52	1
13C4 PFHpA	99		31 - 182	11/25/22 14:50	12/14/22 22:52	1
13C5 PFPeA	152		38 - 187	11/25/22 14:50	12/14/22 22:52	1
13C8 PFOA	91		48 - 162	11/25/22 14:50	12/14/22 22:52	1
13C8 PFOS	97		51 - 159	11/25/22 14:50	12/14/22 22:52	1
d5-NEtFOSAA	85		29 - 195	11/25/22 14:50	12/14/22 22:52	1
d9-N-EtFOSE-M	26		10 - 177	11/25/22 14:50	12/14/22 22:52	1
13C3 PFHxS	96		28 - 188	11/25/22 14:50	12/14/22 22:52	1
13C5 PFHxA	89		24 - 179	11/25/22 14:50	12/14/22 22:52	1
13C6 PFDA	86		49 - 163	11/25/22 14:50	12/14/22 22:52	1
13C7 PFUnA	88		34 - 174	11/25/22 14:50	12/14/22 22:52	1
d5-NEtPFOSA	12		10 - 159	11/25/22 14:50	12/14/22 22:52	1
13C8 FOSA	43		10 - 168	11/25/22 14:50	12/14/22 22:52	1
13C2-PFDoDA	87		17 - 176	11/25/22 14:50	12/14/22 22:52	1
13C9 PFNA	104		51 - 167	11/25/22 14:50	12/14/22 22:52	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: SW-MERR-202W 1945

Lab Sample ID: 410-105783-13

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.44	U	2.6	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
NMeFOSAA	0.52	U	1.7	0.52	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorobutanesulfonic acid	0.88	J	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorobutanoic acid	1.7	U	4.4	1.7	ng/L		11/25/22 14:50	12/14/22 23:03	1
HFPODA	0.87	U	2.6	0.87	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorodecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorododecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
NEtFOSA	0.87	U	4.4	0.87	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluoroheptanesulfonic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluoroheptanoic acid	0.81	J	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorohexanesulfonic acid	0.58	J	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorohexanoic acid	1.4	J	1.7	0.79	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorononanesulfonic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorononanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorooctanesulfonamide	0.61	U	1.7	0.61	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorooctanesulfonic acid	0.97	J	1.7	0.87	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorooctanoic acid	2.1		1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluoropentanesulfonic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluoropentanoic acid	1.1	J	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorotetradecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluorotridecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
Perfluoroundecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:50	12/14/22 23:03	1
6:2 Fluorotelomer sulfonic acid	3.7	U	4.4	3.7	ng/L		11/25/22 14:50	12/14/22 23:03	1
8:2 Fluorotelomer sulfonic acid	0.87	U	2.6	0.87	ng/L		11/25/22 14:50	12/14/22 23:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	137		17 - 200	11/25/22 14:50	12/14/22 23:03	1
M2-8:2 FTS	90		33 - 200	11/25/22 14:50	12/14/22 23:03	1
13C2 PFTeDA	52		10 - 179	11/25/22 14:50	12/14/22 23:03	1
13C3 HFPO-DA	76		17 - 185	11/25/22 14:50	12/14/22 23:03	1
13C3 PFBS	173		16 - 200	11/25/22 14:50	12/14/22 23:03	1
13C4 PFBA	98		42 - 165	11/25/22 14:50	12/14/22 23:03	1
13C4 PFHpA	98		31 - 182	11/25/22 14:50	12/14/22 23:03	1
13C5 PFPeA	157		38 - 187	11/25/22 14:50	12/14/22 23:03	1
13C8 PFOA	94		48 - 162	11/25/22 14:50	12/14/22 23:03	1
13C8 PFOS	98		51 - 159	11/25/22 14:50	12/14/22 23:03	1
d5-NEtFOSAA	83		29 - 195	11/25/22 14:50	12/14/22 23:03	1
d9-N-EtFOSE-M	12		10 - 177	11/25/22 14:50	12/14/22 23:03	1
13C3 PFHxS	91		28 - 188	11/25/22 14:50	12/14/22 23:03	1
13C5 PFHxA	93		24 - 179	11/25/22 14:50	12/14/22 23:03	1
13C6 PFDA	91		49 - 163	11/25/22 14:50	12/14/22 23:03	1
13C7 PFUnA	80		34 - 174	11/25/22 14:50	12/14/22 23:03	1
d5-NEtPFOSA	4	*5- cn	10 - 159	11/25/22 14:50	12/14/22 23:03	1
13C8 FOSA	32		10 - 168	11/25/22 14:50	12/14/22 23:03	1
13C2-PFDoDA	81		17 - 176	11/25/22 14:50	12/14/22 23:03	1
13C9 PFNA	106		51 - 167	11/25/22 14:50	12/14/22 23:03	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: EB-RD

Lab Sample ID: 410-105783-14

Date Collected: 11/11/22 16:23

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.43	U	2.6	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
NMeFOSAA	0.51	U	1.7	0.51	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorobutanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorobutanoic acid	1.7	U	4.3	1.7	ng/L		11/25/22 14:50	12/11/22 16:20	1
HFPODA	0.85	U	2.6	0.85	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorodecanoic acid	1.1	J	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorododecanoic acid	2.1		1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
NEtFOSA	0.85	U	4.3	0.85	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluoroheptanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluoroheptanoic acid	1.0	J	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorohexanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorohexanoic acid	1.8		1.7	0.77	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorononanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorononanoic acid	0.52	J	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorooctanesulfonamide	0.60	U	1.7	0.60	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorooctanesulfonic acid	1.1	J	1.7	0.85	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorooctanoic acid	7.5		1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluoropentanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluoropentanoic acid	0.98	J	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorotetradecanoic acid	1.0	J	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluorotridecanoic acid	1.5	J	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
Perfluoroundecanoic acid	0.97	J	1.7	0.43	ng/L		11/25/22 14:50	12/11/22 16:20	1
6:2 Fluorotelomer sulfonic acid	3.6	U	4.3	3.6	ng/L		11/25/22 14:50	12/11/22 16:20	1
8:2 Fluorotelomer sulfonic acid	0.85	U	2.6	0.85	ng/L		11/25/22 14:50	12/11/22 16:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	98		17 - 200	11/25/22 14:50	12/11/22 16:20	1
M2-8:2 FTS	97		33 - 200	11/25/22 14:50	12/11/22 16:20	1
13C2 PFTeDA	87		10 - 179	11/25/22 14:50	12/11/22 16:20	1
13C3 HFPO-DA	57		17 - 185	11/25/22 14:50	12/11/22 16:20	1
13C3 PFBS	95		16 - 200	11/25/22 14:50	12/11/22 16:20	1
13C4 PFBA	82		42 - 165	11/25/22 14:50	12/11/22 16:20	1
13C4 PFHpA	83		31 - 182	11/25/22 14:50	12/11/22 16:20	1
13C5 PFPeA	77		38 - 187	11/25/22 14:50	12/11/22 16:20	1
13C8 PFOA	81		48 - 162	11/25/22 14:50	12/11/22 16:20	1
13C8 PFOS	89		51 - 159	11/25/22 14:50	12/11/22 16:20	1
d5-NEtFOSAA	103		29 - 195	11/25/22 14:50	12/11/22 16:20	1
d9-N-EtFOSE-M	56		10 - 177	11/25/22 14:50	12/11/22 16:20	1
13C3 PFHxS	89		28 - 188	11/25/22 14:50	12/11/22 16:20	1
13C5 PFHxA	81		24 - 179	11/25/22 14:50	12/11/22 16:20	1
13C6 PFDA	80		49 - 163	11/25/22 14:50	12/11/22 16:20	1
13C7 PFUnA	88		34 - 174	11/25/22 14:50	12/11/22 16:20	1
d5-NEtPFOSA	41		10 - 159	11/25/22 14:50	12/11/22 16:20	1
13C8 FOSA	75		10 - 168	11/25/22 14:50	12/11/22 16:20	1
13C2-PFDoDA	80		17 - 176	11/25/22 14:50	12/11/22 16:20	1
13C9 PFNA	83		51 - 167	11/25/22 14:50	12/11/22 16:20	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-SW 1740

Lab Sample ID: 410-105783-16

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	5.0	U cn	30	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
NMeFOSAA	6.0	U cn	20	6.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorobutanesulfonic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorobutanoic acid	97	cn	50	20	ng/L		11/25/22 14:50	12/11/22 16:54	1
HFPODA	35	I cn	30	10	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorodecanoic acid	19	J cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorododecanoic acid	7.9	J cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
NEtFOSA	10	U cn	50	10	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluoroheptanesulfonic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluoroheptanoic acid	130	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorohexanesulfonic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorohexanoic acid	230	cn	20	9.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorononanesulfonic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorononanoic acid	20	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorooctanesulfonamide	7.0	U cn	20	7.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorooctanesulfonic acid	17	J cn	20	10	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorooctanoic acid	480	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluoropentanesulfonic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluoropentanoic acid	77	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorotetradecanoic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluorotridecanoic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
Perfluoroundecanoic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 16:54	1
6:2 Fluorotelomer sulfonic acid	42	U cn	50	42	ng/L		11/25/22 14:50	12/11/22 16:54	1
8:2 Fluorotelomer sulfonic acid	10	U cn	30	10	ng/L		11/25/22 14:50	12/11/22 16:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	270	*5+ cn	17 - 200	11/25/22 14:50	12/11/22 16:54	1
M2-8:2 FTS	185	cn	33 - 200	11/25/22 14:50	12/11/22 16:54	1
13C2 PFTeDA	59	cn	10 - 179	11/25/22 14:50	12/11/22 16:54	1
13C3 HFPO-DA	52	cn	17 - 185	11/25/22 14:50	12/11/22 16:54	1
13C3 PFBS	138	cn	16 - 200	11/25/22 14:50	12/11/22 16:54	1
13C4 PFBA	80	cn	42 - 165	11/25/22 14:50	12/11/22 16:54	1
13C4 PFHpA	80	cn	31 - 182	11/25/22 14:50	12/11/22 16:54	1
13C5 PFPeA	82	cn	38 - 187	11/25/22 14:50	12/11/22 16:54	1
13C8 PFOA	82	cn	48 - 162	11/25/22 14:50	12/11/22 16:54	1
13C8 PFOS	93	cn	51 - 159	11/25/22 14:50	12/11/22 16:54	1
d5-NEtFOSAA	83	cn	29 - 195	11/25/22 14:50	12/11/22 16:54	1
d9-N-EtFOSE-M	39	cn	10 - 177	11/25/22 14:50	12/11/22 16:54	1
13C3 PFHxS	98	cn	28 - 188	11/25/22 14:50	12/11/22 16:54	1
13C5 PFHxA	75	cn	24 - 179	11/25/22 14:50	12/11/22 16:54	1
13C6 PFDA	85	cn	49 - 163	11/25/22 14:50	12/11/22 16:54	1
13C7 PFUnA	77	cn	34 - 174	11/25/22 14:50	12/11/22 16:54	1
d5-NEtPFOSA	36	cn	10 - 159	11/25/22 14:50	12/11/22 16:54	1
13C8 FOSA	58	cn	10 - 168	11/25/22 14:50	12/11/22 16:54	1
13C2-PFDoDA	67	cn	17 - 176	11/25/22 14:50	12/11/22 16:54	1
13C9 PFNA	84	cn	51 - 167	11/25/22 14:50	12/11/22 16:54	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-SW 1945

Lab Sample ID: 410-105783-17

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.75	J	2.7	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
NMeFOSAA	0.55	U	1.8	0.55	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorobutanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorobutanoic acid	5.3		4.6	1.8	ng/L		11/25/22 14:50	12/11/22 17:05	1
HFPODA	0.92	U	2.7	0.92	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorodecanoic acid	2.4		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorododecanoic acid	1.6	J	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
NEtFOSA	0.92	U	4.6	0.92	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluoroheptanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluoroheptanoic acid	8.2		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorohexanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorohexanoic acid	13		1.8	0.82	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorononanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorononanoic acid	1.8	I	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorooctanesulfonamide	1.2	J	1.8	0.64	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorooctanesulfonic acid	1.8		1.8	0.92	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorooctanoic acid	32		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluoropentanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluoropentanoic acid	5.0		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorotetradecanoic acid	1.0	J	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluorotridecanoic acid	0.53	J	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
Perfluoroundecanoic acid	0.96	J	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:05	1
6:2 Fluorotelomer sulfonic acid	3.8	U	4.6	3.8	ng/L		11/25/22 14:50	12/11/22 17:05	1
8:2 Fluorotelomer sulfonic acid	0.92	U	2.7	0.92	ng/L		11/25/22 14:50	12/11/22 17:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	280	*5+ cn	17 - 200	11/25/22 14:50	12/11/22 17:05	1
M2-8:2 FTS	215	*5+ cn	33 - 200	11/25/22 14:50	12/11/22 17:05	1
13C2 PFTeDA	59		10 - 179	11/25/22 14:50	12/11/22 17:05	1
13C3 HFPO-DA	64		17 - 185	11/25/22 14:50	12/11/22 17:05	1
13C3 PFBS	118		16 - 200	11/25/22 14:50	12/11/22 17:05	1
13C4 PFBA	84		42 - 165	11/25/22 14:50	12/11/22 17:05	1
13C4 PFHpA	79		31 - 182	11/25/22 14:50	12/11/22 17:05	1
13C5 PFPeA	85		38 - 187	11/25/22 14:50	12/11/22 17:05	1
13C8 PFOA	87		48 - 162	11/25/22 14:50	12/11/22 17:05	1
13C8 PFOS	100		51 - 159	11/25/22 14:50	12/11/22 17:05	1
d5-NEtFOSAA	90		29 - 195	11/25/22 14:50	12/11/22 17:05	1
d9-N-EtFOSE-M	9	*5- cn	10 - 177	11/25/22 14:50	12/11/22 17:05	1
13C3 PFHxS	96		28 - 188	11/25/22 14:50	12/11/22 17:05	1
13C5 PFHxA	85		24 - 179	11/25/22 14:50	12/11/22 17:05	1
13C6 PFDA	84		49 - 163	11/25/22 14:50	12/11/22 17:05	1
13C7 PFUnA	80		34 - 174	11/25/22 14:50	12/11/22 17:05	1
d5-NEtPFOSA	8	*5- cn	10 - 159	11/25/22 14:50	12/11/22 17:05	1
13C8 FOSA	65		10 - 168	11/25/22 14:50	12/11/22 17:05	1
13C2-PFDoDA	73		17 - 176	11/25/22 14:50	12/11/22 17:05	1
13C9 PFNA	97		51 - 167	11/25/22 14:50	12/11/22 17:05	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-NW 1740

Lab Sample ID: 410-105783-18

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	7.7	J cn	30	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
NMeFOSAA	6.0	U cn	20	6.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorobutanesulfonic acid	9.5	J cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorobutanoic acid	140	cn	50	20	ng/L		11/25/22 14:50	12/11/22 17:16	1
HFPODA	10	U cn	30	10	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorodecanoic acid	120	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorododecanoic acid	70	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
NEtFOSA	10	U cn	50	10	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluoroheptanesulfonic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluoroheptanoic acid	240	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorohexanesulfonic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorohexanoic acid	450	cn	20	9.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorononanesulfonic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorononanoic acid	75	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorooctanesulfonamide	7.0	U cn	20	7.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorooctanesulfonic acid	46	cn	20	10	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorooctanoic acid	920	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluoropentanesulfonic acid	5.0	U cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluoropentanoic acid	150	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorotetradecanoic acid	24	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluorotridecanoic acid	29	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
Perfluoroundecanoic acid	48	cn	20	5.0	ng/L		11/25/22 14:50	12/11/22 17:16	1
6:2 Fluorotelomer sulfonic acid	370	cn	50	42	ng/L		11/25/22 14:50	12/11/22 17:16	1
8:2 Fluorotelomer sulfonic acid	10	U cn	30	10	ng/L		11/25/22 14:50	12/11/22 17:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	256	*5+ cn	17 - 200	11/25/22 14:50	12/11/22 17:16	1
M2-8:2 FTS	198	cn	33 - 200	11/25/22 14:50	12/11/22 17:16	1
13C2 PFTeDA	75	cn	10 - 179	11/25/22 14:50	12/11/22 17:16	1
13C3 HFPO-DA	59	cn	17 - 185	11/25/22 14:50	12/11/22 17:16	1
13C3 PFBS	124	cn	16 - 200	11/25/22 14:50	12/11/22 17:16	1
13C4 PFBA	74	cn	42 - 165	11/25/22 14:50	12/11/22 17:16	1
13C4 PFHpA	79	cn	31 - 182	11/25/22 14:50	12/11/22 17:16	1
13C5 PFPeA	81	cn	38 - 187	11/25/22 14:50	12/11/22 17:16	1
13C8 PFOA	82	cn	48 - 162	11/25/22 14:50	12/11/22 17:16	1
13C8 PFOS	91	cn	51 - 159	11/25/22 14:50	12/11/22 17:16	1
d5-NEtFOSAA	93	cn	29 - 195	11/25/22 14:50	12/11/22 17:16	1
d9-N-EtFOSE-M	60	cn	10 - 177	11/25/22 14:50	12/11/22 17:16	1
13C3 PFHxS	97	cn	28 - 188	11/25/22 14:50	12/11/22 17:16	1
13C5 PFHxA	73	cn	24 - 179	11/25/22 14:50	12/11/22 17:16	1
13C6 PFDA	85	cn	49 - 163	11/25/22 14:50	12/11/22 17:16	1
13C7 PFUnA	76	cn	34 - 174	11/25/22 14:50	12/11/22 17:16	1
d5-NEtPFOSA	44	cn	10 - 159	11/25/22 14:50	12/11/22 17:16	1
13C8 FOSA	64	cn	10 - 168	11/25/22 14:50	12/11/22 17:16	1
13C2-PFDoDA	74	cn	17 - 176	11/25/22 14:50	12/11/22 17:16	1
13C9 PFNA	84	cn	51 - 167	11/25/22 14:50	12/11/22 17:16	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-NW 1945

Lab Sample ID: 410-105783-19

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	2.4	J	2.8	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
NMeFOSAA	0.56	U	1.9	0.56	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorobutanesulfonic acid	0.68	J	1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorobutanoic acid	18		4.7	1.9	ng/L		11/25/22 14:50	12/11/22 17:27	1
HFPODA	1.7	J	2.8	0.94	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorodecanoic acid	21		1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorododecanoic acid	19		1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
NEtFOSA	0.94	U	4.7	0.94	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluoroheptanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluoroheptanoic acid	31		1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorohexanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorohexanoic acid	58		1.9	0.84	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorononanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorononanoic acid	8.7		1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorooctanesulfonamide	2.1		1.9	0.66	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorooctanesulfonic acid	6.7		1.9	0.94	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorooctanoic acid	150		1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluoropentanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluoropentanoic acid	24		1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorotetradecanoic acid	11		1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluorotridecanoic acid	8.9		1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
Perfluoroundecanoic acid	10		1.9	0.47	ng/L		11/25/22 14:50	12/11/22 17:27	1
6:2 Fluorotelomer sulfonic acid	36		4.7	3.9	ng/L		11/25/22 14:50	12/11/22 17:27	1
8:2 Fluorotelomer sulfonic acid	0.94	U	2.8	0.94	ng/L		11/25/22 14:50	12/11/22 17:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	284	*5+ cn	17 - 200	11/25/22 14:50	12/11/22 17:27	1
M2-8:2 FTS	240	*5+ cn	33 - 200	11/25/22 14:50	12/11/22 17:27	1
13C2 PFTeDA	64		10 - 179	11/25/22 14:50	12/11/22 17:27	1
13C3 HFPO-DA	46		17 - 185	11/25/22 14:50	12/11/22 17:27	1
13C3 PFBS	134		16 - 200	11/25/22 14:50	12/11/22 17:27	1
13C4 PFBA	73		42 - 165	11/25/22 14:50	12/11/22 17:27	1
13C4 PFHpA	69		31 - 182	11/25/22 14:50	12/11/22 17:27	1
13C5 PFPeA	77		38 - 187	11/25/22 14:50	12/11/22 17:27	1
13C8 PFOA	73		48 - 162	11/25/22 14:50	12/11/22 17:27	1
13C8 PFOS	83		51 - 159	11/25/22 14:50	12/11/22 17:27	1
d5-NEtFOSAA	89		29 - 195	11/25/22 14:50	12/11/22 17:27	1
d9-N-EtFOSE-M	15		10 - 177	11/25/22 14:50	12/11/22 17:27	1
13C3 PFHxS	95		28 - 188	11/25/22 14:50	12/11/22 17:27	1
13C5 PFHxA	70		24 - 179	11/25/22 14:50	12/11/22 17:27	1
13C6 PFDA	79		49 - 163	11/25/22 14:50	12/11/22 17:27	1
13C7 PFUnA	72		34 - 174	11/25/22 14:50	12/11/22 17:27	1
d5-NEtPFOSA	4	*5- cn	10 - 159	11/25/22 14:50	12/11/22 17:27	1
13C8 FOSA	64		10 - 168	11/25/22 14:50	12/11/22 17:27	1
13C2-PFDoDA	77		17 - 176	11/25/22 14:50	12/11/22 17:27	1
13C9 PFNA	74		51 - 167	11/25/22 14:50	12/11/22 17:27	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-NMB 1740

Lab Sample ID: 410-105783-20

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	19		3.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
NMeFOSAA	0.60	U	2.0	0.60	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorobutanesulfonic acid	1.5	J	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorobutanoic acid	29		5.0	2.0	ng/L		11/25/22 14:50	12/11/22 17:38	1
HFPODA	4.1		3.0	1.0	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorodecanoic acid	68		2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorododecanoic acid	52		2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
NEtFOSA	1.0	U	5.0	1.0	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluoroheptanesulfonic acid	0.81	J	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluoroheptanoic acid	93		2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorohexanesulfonic acid	1.9	J	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorohexanoic acid	120		2.0	0.90	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorononanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorononanoic acid	31		2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorooctanesulfonamide	29		2.0	0.70	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorooctanesulfonic acid	110		2.0	1.0	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluoropentanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluoropentanoic acid	40		2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorotetradecanoic acid	15		2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluorotridecanoic acid	20		2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
Perfluoroundecanoic acid	31		2.0	0.50	ng/L		11/25/22 14:50	12/11/22 17:38	1
6:2 Fluorotelomer sulfonic acid	73		5.0	4.2	ng/L		11/25/22 14:50	12/11/22 17:38	1
8:2 Fluorotelomer sulfonic acid	2.7	J	3.0	1.0	ng/L		11/25/22 14:50	12/11/22 17:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	300	*5+ cn	17 - 200	11/25/22 14:50	12/11/22 17:38	1
M2-8:2 FTS	288	*5+ cn	33 - 200	11/25/22 14:50	12/11/22 17:38	1
13C2 PFTeDA	64		10 - 179	11/25/22 14:50	12/11/22 17:38	1
13C3 HFPO-DA	61		17 - 185	11/25/22 14:50	12/11/22 17:38	1
13C3 PFBS	125		16 - 200	11/25/22 14:50	12/11/22 17:38	1
13C4 PFBA	77		42 - 165	11/25/22 14:50	12/11/22 17:38	1
13C4 PFHpA	85		31 - 182	11/25/22 14:50	12/11/22 17:38	1
13C5 PFPeA	79		38 - 187	11/25/22 14:50	12/11/22 17:38	1
13C8 PFOA	81		48 - 162	11/25/22 14:50	12/11/22 17:38	1
13C8 PFOS	94		51 - 159	11/25/22 14:50	12/11/22 17:38	1
d5-NEtFOSAA	92		29 - 195	11/25/22 14:50	12/11/22 17:38	1
d9-N-EtFOSE-M	29		10 - 177	11/25/22 14:50	12/11/22 17:38	1
13C3 PFHxS	110		28 - 188	11/25/22 14:50	12/11/22 17:38	1
13C5 PFHxA	80		24 - 179	11/25/22 14:50	12/11/22 17:38	1
13C6 PFDA	83		49 - 163	11/25/22 14:50	12/11/22 17:38	1
13C7 PFUnA	89		34 - 174	11/25/22 14:50	12/11/22 17:38	1
d5-NEtPFOSA	9	*5- cn	10 - 159	11/25/22 14:50	12/11/22 17:38	1
13C8 FOSA	41		10 - 168	11/25/22 14:50	12/11/22 17:38	1
13C2-PFDoDA	83		17 - 176	11/25/22 14:50	12/11/22 17:38	1
13C9 PFNA	82		51 - 167	11/25/22 14:50	12/11/22 17:38	1

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	400		20	5.0	ng/L		11/25/22 14:50	12/14/22 23:14	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-NMB 1740

Lab Sample ID: 410-105783-20

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C8 PFOA	105		48 - 162	11/25/22 14:50	12/14/22 23:14	10

Client Sample ID: RD-NMB 1945

Lab Sample ID: 410-105783-21

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	6.5		2.7	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
NMeFOSAA	0.55	U	1.8	0.55	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorobutanesulfonic acid	0.65	J	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorobutanoic acid	14		4.6	1.8	ng/L		11/25/22 14:50	12/11/22 17:49	1
HFPODA	1.3	J I	2.7	0.92	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorodecanoic acid	14		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorododecanoic acid	11		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
NEtFOSA	0.92	U	4.6	0.92	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluoroheptanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluoroheptanoic acid	30		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorohexanesulfonic acid	0.53	J	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorohexanoic acid	47		1.8	0.82	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorononanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorononanoic acid	7.7		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorooctanesulfonamide	4.3		1.8	0.64	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorooctanesulfonic acid	31		1.8	0.92	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorooctanoic acid	130		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluoropentanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluoropentanoic acid	20		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorotetradecanoic acid	4.4		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluorotridecanoic acid	5.1		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
Perfluoroundecanoic acid	7.1		1.8	0.46	ng/L		11/25/22 14:50	12/11/22 17:49	1
6:2 Fluorotelomer sulfonic acid	18		4.6	3.8	ng/L		11/25/22 14:50	12/11/22 17:49	1
8:2 Fluorotelomer sulfonic acid	0.92	U	2.7	0.92	ng/L		11/25/22 14:50	12/11/22 17:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	213	*5+ cn	17 - 200				11/25/22 14:50	12/11/22 17:49	1
M2-8:2 FTS	182		33 - 200				11/25/22 14:50	12/11/22 17:49	1
13C2 PFTeDA	64		10 - 179				11/25/22 14:50	12/11/22 17:49	1
13C3 HFPO-DA	68		17 - 185				11/25/22 14:50	12/11/22 17:49	1
13C3 PFBS	109		16 - 200				11/25/22 14:50	12/11/22 17:49	1
13C4 PFBA	85		42 - 165				11/25/22 14:50	12/11/22 17:49	1
13C4 PFHpA	90		31 - 182				11/25/22 14:50	12/11/22 17:49	1
13C5 PFPeA	91		38 - 187				11/25/22 14:50	12/11/22 17:49	1
13C8 PFOA	88		48 - 162				11/25/22 14:50	12/11/22 17:49	1
13C8 PFOS	93		51 - 159				11/25/22 14:50	12/11/22 17:49	1
d5-NEtFOSAA	85		29 - 195				11/25/22 14:50	12/11/22 17:49	1
d9-N-EtFOSE-M	37		10 - 177				11/25/22 14:50	12/11/22 17:49	1
13C3 PFHxS	100		28 - 188				11/25/22 14:50	12/11/22 17:49	1
13C5 PFHxA	87		24 - 179				11/25/22 14:50	12/11/22 17:49	1
13C6 PFDA	86		49 - 163				11/25/22 14:50	12/11/22 17:49	1
13C7 PFUnA	73		34 - 174				11/25/22 14:50	12/11/22 17:49	1
d5-NEtPFOSA	38		10 - 159				11/25/22 14:50	12/11/22 17:49	1
13C8 FOSA	61		10 - 168				11/25/22 14:50	12/11/22 17:49	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-NMB 1945

Lab Sample ID: 410-105783-21

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	66		17 - 176	11/25/22 14:50	12/11/22 17:49	1
13C9 PFNA	92		51 - 167	11/25/22 14:50	12/11/22 17:49	1

Client Sample ID: RD-MB-NE 1740

Lab Sample ID: 410-105783-22

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	130	cn	2.6	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
NMeFOSAA	0.52	U cn	1.7	0.52	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorobutanesulfonic acid	3.7	I cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorobutanoic acid	210	cn	4.4	1.7	ng/L		11/25/22 14:52	12/07/22 14:47	1
HFPODA	11	cn	2.6	0.87	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorodecanoic acid	160	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorododecanoic acid	120	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
NEtFOSA	20	cn	4.4	0.87	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluoroheptanesulfonic acid	3.6	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorohexanesulfonic acid	22	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorononanesulfonic acid	0.52	J cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorononanoic acid	100	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorooctanesulfonamide	57	cn	1.7	0.61	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluoropentanesulfonic acid	4.8	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluoropentanoic acid	250	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorotetradecanoic acid	110	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluorotridecanoic acid	68	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
Perfluoroundecanoic acid	74	cn	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 14:47	1
8:2 Fluorotelomer sulfonic acid	20	cn	2.6	0.87	ng/L		11/25/22 14:52	12/07/22 14:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	326	*5+ cn	17 - 200	11/25/22 14:52	12/07/22 14:47	1
M2-8:2 FTS	367	*5+ cn	33 - 200	11/25/22 14:52	12/07/22 14:47	1
13C2 PFTeDA	34	cn	10 - 179	11/25/22 14:52	12/07/22 14:47	1
13C3 HFPO-DA	55	cn	17 - 185	11/25/22 14:52	12/07/22 14:47	1
13C3 PFBS	409	*5+ cn	16 - 200	11/25/22 14:52	12/07/22 14:47	1
13C4 PFBA	75	cn	42 - 165	11/25/22 14:52	12/07/22 14:47	1
13C4 PFHpA	99	cn	31 - 182	11/25/22 14:52	12/07/22 14:47	1
13C5 PFPeA	131	cn	38 - 187	11/25/22 14:52	12/07/22 14:47	1
13C8 PFOA	75	cn	48 - 162	11/25/22 14:52	12/07/22 14:47	1
13C8 PFOS	105	cn	51 - 159	11/25/22 14:52	12/07/22 14:47	1
d5-NEtFOSAA	107	cn	29 - 195	11/25/22 14:52	12/07/22 14:47	1
d9-N-EtFOSE-M	34	cn	10 - 177	11/25/22 14:52	12/07/22 14:47	1
13C3 PFHxS	206	*5+ cn	28 - 188	11/25/22 14:52	12/07/22 14:47	1
13C5 PFHxA	71	cn	24 - 179	11/25/22 14:52	12/07/22 14:47	1
13C6 PFDA	108	cn	49 - 163	11/25/22 14:52	12/07/22 14:47	1
13C7 PFUnA	109	cn	34 - 174	11/25/22 14:52	12/07/22 14:47	1
d5-NEtPFOSA	3	*5- cn	10 - 159	11/25/22 14:52	12/07/22 14:47	1
13C8 FOSA	51	cn	10 - 168	11/25/22 14:52	12/07/22 14:47	1
13C2-PFDoDA	111	cn	17 - 176	11/25/22 14:52	12/07/22 14:47	1
13C9 PFNA	87	cn	51 - 167	11/25/22 14:52	12/07/22 14:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-NE 1740

Lab Sample ID: 410-105783-22

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	600		17	4.4	ng/L		11/25/22 14:52	12/08/22 16:36	10
Perfluorohexanoic acid	690		17	7.9	ng/L		11/25/22 14:52	12/08/22 16:36	10
Perfluorooctanesulfonic acid	660		17	8.7	ng/L		11/25/22 14:52	12/08/22 16:36	10
6:2 Fluorotelomer sulfonic acid	1100		44	37	ng/L		11/25/22 14:52	12/08/22 16:36	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	288	*5+	17 - 200				11/25/22 14:52	12/08/22 16:36	10
13C4 PFHpA	105		31 - 182				11/25/22 14:52	12/08/22 16:36	10
13C8 PFOS	115		51 - 159				11/25/22 14:52	12/08/22 16:36	10
13C5 PFHxA	97		24 - 179				11/25/22 14:52	12/08/22 16:36	10

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	3700		170	44	ng/L		11/25/22 14:52	12/08/22 16:47	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	123		48 - 162				11/25/22 14:52	12/08/22 16:47	100

Client Sample ID: RD-MB-NE 1945

Lab Sample ID: 410-105783-23

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	38		2.4	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
NMeFOSAA	0.49	U	1.6	0.49	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorobutanesulfonic acid	2.4		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorobutanoic acid	33		4.1	1.6	ng/L		11/25/22 14:52	12/07/22 14:58	1
HFPODA	1.4	J	2.4	0.81	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorodecanoic acid	46		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorododecanoic acid	27		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
NEtFOSA	4.5		4.1	0.81	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluoroheptanesulfonic acid	2.4		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluoroheptanoic acid	220		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorohexanesulfonic acid	10		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorohexanoic acid	200		1.6	0.73	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorononanesulfonic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorononanoic acid	38		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorooctanesulfonamide	41		1.6	0.57	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluoropentanesulfonic acid	2.2		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluoropentanoic acid	56		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorotetradecanoic acid	10		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluorotridecanoic acid	7.4		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
Perfluoroundecanoic acid	19		1.6	0.41	ng/L		11/25/22 14:52	12/07/22 14:58	1
6:2 Fluorotelomer sulfonic acid	250		4.1	3.4	ng/L		11/25/22 14:52	12/07/22 14:58	1
8:2 Fluorotelomer sulfonic acid	6.3		2.4	0.81	ng/L		11/25/22 14:52	12/07/22 14:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	194		17 - 200				11/25/22 14:52	12/07/22 14:58	1
M2-8:2 FTS	279	*5+	33 - 200				11/25/22 14:52	12/07/22 14:58	1
13C2 PFTeDA	12		10 - 179				11/25/22 14:52	12/07/22 14:58	1
13C3 HFPO-DA	80		17 - 185				11/25/22 14:52	12/07/22 14:58	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-NE 1945

Lab Sample ID: 410-105783-23

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	150		16 - 200	11/25/22 14:52	12/07/22 14:58	1
13C4 PFBA	102		42 - 165	11/25/22 14:52	12/07/22 14:58	1
13C4 PFHpA	125		31 - 182	11/25/22 14:52	12/07/22 14:58	1
13C5 PFPeA	115		38 - 187	11/25/22 14:52	12/07/22 14:58	1
13C8 PFOA	93		48 - 162	11/25/22 14:52	12/07/22 14:58	1
13C8 PFOS	112		51 - 159	11/25/22 14:52	12/07/22 14:58	1
d5-NEtFOSAA	126		29 - 195	11/25/22 14:52	12/07/22 14:58	1
d9-N-EtFOSE-M	14		10 - 177	11/25/22 14:52	12/07/22 14:58	1
13C3 PFHxS	139		28 - 188	11/25/22 14:52	12/07/22 14:58	1
13C5 PFHxA	112		24 - 179	11/25/22 14:52	12/07/22 14:58	1
13C6 PFDA	111		49 - 163	11/25/22 14:52	12/07/22 14:58	1
13C7 PFUnA	90		34 - 174	11/25/22 14:52	12/07/22 14:58	1
d5-NEtPFOSA	29		10 - 159	11/25/22 14:52	12/07/22 14:58	1
13C8 FOSA	90		10 - 168	11/25/22 14:52	12/07/22 14:58	1
13C2-PFDoDA	65		17 - 176	11/25/22 14:52	12/07/22 14:58	1
13C9 PFNA	114		51 - 167	11/25/22 14:52	12/07/22 14:58	1

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	310		16	8.1	ng/L		11/25/22 14:52	12/08/22 16:58	10
Perfluorooctanoic acid	1400		16	4.1	ng/L		11/25/22 14:52	12/08/22 16:58	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	100		48 - 162				11/25/22 14:52	12/08/22 16:58	10
13C8 PFOS	108		51 - 159				11/25/22 14:52	12/08/22 16:58	10

Client Sample ID: TB-1

Lab Sample ID: 410-105783-24

Date Collected: 11/11/22 00:00

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.44	U	2.6	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
NMeFOSAA	0.52	U	1.7	0.52	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorobutanesulfonic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorobutanoic acid	1.7	U	4.4	1.7	ng/L		11/25/22 14:52	12/07/22 15:09	1
HFPODA	0.87	U	2.6	0.87	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorodecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorododecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
NEtFOSA	0.87	U	4.4	0.87	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluoroheptanesulfonic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluoroheptanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorohexanesulfonic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorohexanoic acid	0.78	U	1.7	0.78	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorononanesulfonic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorononanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorooctanesulfonamide	0.61	U	1.7	0.61	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorooctanesulfonic acid	0.87	U	1.7	0.87	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorooctanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluoropentanesulfonic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluoropentanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: TB-1

Lab Sample ID: 410-105783-24

Date Collected: 11/11/22 00:00

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluorotridecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
Perfluoroundecanoic acid	0.44	U	1.7	0.44	ng/L		11/25/22 14:52	12/07/22 15:09	1
6:2 Fluorotelomer sulfonic acid	3.7	U	4.4	3.7	ng/L		11/25/22 14:52	12/07/22 15:09	1
8:2 Fluorotelomer sulfonic acid	0.87	U	2.6	0.87	ng/L		11/25/22 14:52	12/07/22 15:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	121		17 - 200				11/25/22 14:52	12/07/22 15:09	1
M2-8:2 FTS	123		33 - 200				11/25/22 14:52	12/07/22 15:09	1
13C2 PFTeDA	96		10 - 179				11/25/22 14:52	12/07/22 15:09	1
13C3 HFPO-DA	76		17 - 185				11/25/22 14:52	12/07/22 15:09	1
13C3 PFBS	112		16 - 200				11/25/22 14:52	12/07/22 15:09	1
13C4 PFBA	112		42 - 165				11/25/22 14:52	12/07/22 15:09	1
13C4 PFHpA	111		31 - 182				11/25/22 14:52	12/07/22 15:09	1
13C5 PFPeA	121		38 - 187				11/25/22 14:52	12/07/22 15:09	1
13C8 PFOA	109		48 - 162				11/25/22 14:52	12/07/22 15:09	1
13C8 PFOS	113		51 - 159				11/25/22 14:52	12/07/22 15:09	1
d5-NEtFOSAA	113		29 - 195				11/25/22 14:52	12/07/22 15:09	1
d9-N-EtFOSE-M	87		10 - 177				11/25/22 14:52	12/07/22 15:09	1
13C3 PFHxS	108		28 - 188				11/25/22 14:52	12/07/22 15:09	1
13C5 PFHxA	111		24 - 179				11/25/22 14:52	12/07/22 15:09	1
13C6 PFDA	106		49 - 163				11/25/22 14:52	12/07/22 15:09	1
13C7 PFUnA	106		34 - 174				11/25/22 14:52	12/07/22 15:09	1
d5-NEtPFOSA	76		10 - 159				11/25/22 14:52	12/07/22 15:09	1
13C8 FOSA	89		10 - 168				11/25/22 14:52	12/07/22 15:09	1
13C2-PFDoDA	115		17 - 176				11/25/22 14:52	12/07/22 15:09	1
13C9 PFNA	117		51 - 167				11/25/22 14:52	12/07/22 15:09	1

Client Sample ID: EB-OUTFALL

Lab Sample ID: 410-105783-25

Date Collected: 11/11/22 17:20

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.40	U	2.4	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
NMeFOSAA	0.48	U	1.6	0.48	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorobutanesulfonic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorobutanoic acid	1.6	U	4.0	1.6	ng/L		11/25/22 14:52	12/07/22 15:20	1
HFPODA	0.80	U	2.4	0.80	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorodecanoic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorododecanoic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
NEtFOSA	0.80	U	4.0	0.80	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluoroheptanesulfonic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluoroheptanoic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorohexanesulfonic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorohexanoic acid	0.72	U	1.6	0.72	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorononanesulfonic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorononanoic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorooctanesulfonamide	0.56	U	1.6	0.56	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorooctanesulfonic acid	0.80	U	1.6	0.80	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorooctanoic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: EB-OUTFALL

Lab Sample ID: 410-105783-25

Date Collected: 11/11/22 17:20

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluoropentanoic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorotetradecanoic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluorotridecanoic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
Perfluoroundecanoic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:20	1
6:2 Fluorotelomer sulfonic acid	3.4	U	4.0	3.4	ng/L		11/25/22 14:52	12/07/22 15:20	1
8:2 Fluorotelomer sulfonic acid	0.80	U	2.4	0.80	ng/L		11/25/22 14:52	12/07/22 15:20	1

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	109		17 - 200				11/25/22 14:52	12/07/22 15:20	1
M2-8:2 FTS	111		33 - 200				11/25/22 14:52	12/07/22 15:20	1
13C2 PFTeDA	94		10 - 179				11/25/22 14:52	12/07/22 15:20	1
13C3 HFPO-DA	72		17 - 185				11/25/22 14:52	12/07/22 15:20	1
13C3 PFBS	104		16 - 200				11/25/22 14:52	12/07/22 15:20	1
13C4 PFBA	106		42 - 165				11/25/22 14:52	12/07/22 15:20	1
13C4 PFHpA	107		31 - 182				11/25/22 14:52	12/07/22 15:20	1
13C5 PFPeA	118		38 - 187				11/25/22 14:52	12/07/22 15:20	1
13C8 PFOA	104		48 - 162				11/25/22 14:52	12/07/22 15:20	1
13C8 PFOS	108		51 - 159				11/25/22 14:52	12/07/22 15:20	1
d5-NEtFOSAA	120		29 - 195				11/25/22 14:52	12/07/22 15:20	1
d9-N-EtFOSE-M	85		10 - 177				11/25/22 14:52	12/07/22 15:20	1
13C3 PFHxS	104		28 - 188				11/25/22 14:52	12/07/22 15:20	1
13C5 PFHxA	105		24 - 179				11/25/22 14:52	12/07/22 15:20	1
13C6 PFDA	108		49 - 163				11/25/22 14:52	12/07/22 15:20	1
13C7 PFUnA	107		34 - 174				11/25/22 14:52	12/07/22 15:20	1
d5-NEtPFOSA	81		10 - 159				11/25/22 14:52	12/07/22 15:20	1
13C8 FOSA	85		10 - 168				11/25/22 14:52	12/07/22 15:20	1
13C2-PFDoDA	110		17 - 176				11/25/22 14:52	12/07/22 15:20	1
13C9 PFNA	111		51 - 167				11/25/22 14:52	12/07/22 15:20	1

Client Sample ID: OUTFALL 001 1905

Lab Sample ID: 410-105783-26

Date Collected: 11/11/22 19:05

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	38	cn	2.4	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
NMeFOSAA	0.49	U cn	1.6	0.49	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorobutanesulfonic acid	4.4	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorobutanoic acid	61	cn	4.0	1.6	ng/L		11/25/22 14:52	12/07/22 15:31	1
HFPODA	2.6	cn	2.4	0.81	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorodecanoic acid	34	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorododecanoic acid	17	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
NEtFOSA	0.81	U cn	4.0	0.81	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluoroheptanesulfonic acid	1.3	J cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluoroheptanoic acid	170	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorohexanesulfonic acid	7.0	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorohexanoic acid	230	cn	1.6	0.73	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorononanesulfonic acid	0.40	U cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorononanoic acid	24	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorooctanesulfonamide	12	cn	1.6	0.57	ng/L		11/25/22 14:52	12/07/22 15:31	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: OUTFALL 001 1905

Lab Sample ID: 410-105783-26

Date Collected: 11/11/22 19:05

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	140	cn	1.6	0.81	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluoropentanesulfonic acid	2.4	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluoropentanoic acid	120	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorotetradecanoic acid	5.8	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluorotridecanoic acid	7.4	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
Perfluoroundecanoic acid	13	cn	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:31	1
6:2 Fluorotelomer sulfonic acid	140	cn	4.0	3.4	ng/L		11/25/22 14:52	12/07/22 15:31	1
8:2 Fluorotelomer sulfonic acid	2.7	cn	2.4	0.81	ng/L		11/25/22 14:52	12/07/22 15:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	257	*5+ cn	17 - 200				11/25/22 14:52	12/07/22 15:31	1
M2-8:2 FTS	284	*5+ cn	33 - 200				11/25/22 14:52	12/07/22 15:31	1
13C2 PFTeDA	73	cn	10 - 179				11/25/22 14:52	12/07/22 15:31	1
13C3 HFPO-DA	75	cn	17 - 185				11/25/22 14:52	12/07/22 15:31	1
13C3 PFBS	215	*5+ cn	16 - 200				11/25/22 14:52	12/07/22 15:31	1
13C4 PFBA	97	cn	42 - 165				11/25/22 14:52	12/07/22 15:31	1
13C4 PFHpA	110	cn	31 - 182				11/25/22 14:52	12/07/22 15:31	1
13C5 PFPeA	132	cn	38 - 187				11/25/22 14:52	12/07/22 15:31	1
13C8 PFOA	92	cn	48 - 162				11/25/22 14:52	12/07/22 15:31	1
13C8 PFOS	106	cn	51 - 159				11/25/22 14:52	12/07/22 15:31	1
d5-NEtFOSAA	120	cn	29 - 195				11/25/22 14:52	12/07/22 15:31	1
d9-N-EtFOSE-M	26	cn	10 - 177				11/25/22 14:52	12/07/22 15:31	1
13C3 PFHxS	143	cn	28 - 188				11/25/22 14:52	12/07/22 15:31	1
13C5 PFHxA	95	cn	24 - 179				11/25/22 14:52	12/07/22 15:31	1
13C6 PFDA	111	cn	49 - 163				11/25/22 14:52	12/07/22 15:31	1
13C7 PFUnA	109	cn	34 - 174				11/25/22 14:52	12/07/22 15:31	1
d5-NEtPFOSA	4	*5- cn	10 - 159				11/25/22 14:52	12/07/22 15:31	1
13C8 FOSA	50	cn	10 - 168				11/25/22 14:52	12/07/22 15:31	1
13C2-PFDoDA	108	cn	17 - 176				11/25/22 14:52	12/07/22 15:31	1
13C9 PFNA	100	cn	51 - 167				11/25/22 14:52	12/07/22 15:31	1

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	920		16	4.0	ng/L		11/25/22 14:52	12/08/22 17:20	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	97		48 - 162				11/25/22 14:52	12/08/22 17:20	10

Client Sample ID: OUTFALL 001 1945

Lab Sample ID: 410-105783-27

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	28		2.4	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
NMeFOSAA	0.49	U	1.6	0.49	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorobutanesulfonic acid	2.9		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorobutanoic acid	48		4.1	1.6	ng/L		11/25/22 14:52	12/08/22 17:31	1
HFPODA	2.3	J	2.4	0.81	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorodecanoic acid	37		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorododecanoic acid	22		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
NEtFOSA	0.81	U	4.1	0.81	ng/L		11/25/22 14:52	12/08/22 17:31	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: OUTFALL 001 1945

Lab Sample ID: 410-105783-27

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	0.98	J	1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluoroheptanoic acid	130		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorohexanesulfonic acid	4.3		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorohexanoic acid	170		1.6	0.73	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorononanesulfonic acid	0.41	U	1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorononanoic acid	23		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorooctanesulfonamide	15		1.6	0.57	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorooctanesulfonic acid	110		1.6	0.81	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluoropentanesulfonic acid	1.1	J	1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluoropentanoic acid	79		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorotetradecanoic acid	12		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluorotridecanoic acid	13		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
Perfluoroundecanoic acid	14		1.6	0.41	ng/L		11/25/22 14:52	12/08/22 17:31	1
6:2 Fluorotelomer sulfonic acid	120		4.1	3.4	ng/L		11/25/22 14:52	12/08/22 17:31	1
8:2 Fluorotelomer sulfonic acid	2.5		2.4	0.81	ng/L		11/25/22 14:52	12/08/22 17:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	295	*5+	17 - 200				11/25/22 14:52	12/08/22 17:31	1
M2-8:2 FTS	304	*5+	33 - 200				11/25/22 14:52	12/08/22 17:31	1
13C2 PFTeDA	92		10 - 179				11/25/22 14:52	12/08/22 17:31	1
13C3 HFPO-DA	95		17 - 185				11/25/22 14:52	12/08/22 17:31	1
13C3 PFBS	176		16 - 200				11/25/22 14:52	12/08/22 17:31	1
13C4 PFBA	80		42 - 165				11/25/22 14:52	12/08/22 17:31	1
13C4 PFHpA	95		31 - 182				11/25/22 14:52	12/08/22 17:31	1
13C5 PFPeA	97		38 - 187				11/25/22 14:52	12/08/22 17:31	1
13C8 PFOA	88		48 - 162				11/25/22 14:52	12/08/22 17:31	1
13C8 PFOS	106		51 - 159				11/25/22 14:52	12/08/22 17:31	1
d5-NEtFOSAA	112		29 - 195				11/25/22 14:52	12/08/22 17:31	1
d9-N-EtFOSE-M	34		10 - 177				11/25/22 14:52	12/08/22 17:31	1
13C3 PFHxS	128		28 - 188				11/25/22 14:52	12/08/22 17:31	1
13C5 PFHxA	85		24 - 179				11/25/22 14:52	12/08/22 17:31	1
13C6 PFDA	101		49 - 163				11/25/22 14:52	12/08/22 17:31	1
13C7 PFUnA	107		34 - 174				11/25/22 14:52	12/08/22 17:31	1
d5-NEtPFOSA	3	*5-	10 - 159				11/25/22 14:52	12/08/22 17:31	1
13C8 FOSA	59		10 - 168				11/25/22 14:52	12/08/22 17:31	1
13C2-PFDODA	104		17 - 176				11/25/22 14:52	12/08/22 17:31	1
13C9 PFNA	94		51 - 167				11/25/22 14:52	12/08/22 17:31	1

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	640		16	4.1	ng/L		11/25/22 14:52	12/08/22 17:42	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	82		48 - 162				11/25/22 14:52	12/08/22 17:42	10

Client Sample ID: OUTFALL 001 2025

Lab Sample ID: 410-105783-28

Date Collected: 11/11/22 20:25

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	27		2.4	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: OUTFALL 001 2025

Lab Sample ID: 410-105783-28

Date Collected: 11/11/22 20:25

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	0.49	U	1.6	0.49	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorobutanesulfonic acid	1.4	J	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorobutanoic acid	16		4.0	1.6	ng/L		11/25/22 14:52	12/07/22 15:53	1
HFPODA	0.85	J	2.4	0.81	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorodecanoic acid	20		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorododecanoic acid	17		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
NEtFOSA	0.81	U	4.0	0.81	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluoroheptanesulfonic acid	0.57	J	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluoroheptanoic acid	36		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorohexanesulfonic acid	1.9		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorohexanoic acid	48		1.6	0.73	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorononanesulfonic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorononanoic acid	8.7		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorooctanesulfonamide	11		1.6	0.57	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorooctanesulfonic acid	61		1.6	0.81	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorooctanoic acid	220		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluoropentanesulfonic acid	0.46	J	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluoropentanoic acid	23		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorotetradecanoic acid	8.2		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluorotridecanoic acid	7.9		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
Perfluoroundecanoic acid	11		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 15:53	1
6:2 Fluorotelomer sulfonic acid	40		4.0	3.4	ng/L		11/25/22 14:52	12/07/22 15:53	1
8:2 Fluorotelomer sulfonic acid	1.4	J	2.4	0.81	ng/L		11/25/22 14:52	12/07/22 15:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	251	*5+	17 - 200	11/25/22 14:52	12/07/22 15:53	1
M2-8:2 FTS	240	*5+	33 - 200	11/25/22 14:52	12/07/22 15:53	1
13C2 PFTeDA	70		10 - 179	11/25/22 14:52	12/07/22 15:53	1
13C3 HFPO-DA	55		17 - 185	11/25/22 14:52	12/07/22 15:53	1
13C3 PFBS	124		16 - 200	11/25/22 14:52	12/07/22 15:53	1
13C4 PFBA	92		42 - 165	11/25/22 14:52	12/07/22 15:53	1
13C4 PFHpA	90		31 - 182	11/25/22 14:52	12/07/22 15:53	1
13C5 PFPeA	101		38 - 187	11/25/22 14:52	12/07/22 15:53	1
13C8 PFOA	86		48 - 162	11/25/22 14:52	12/07/22 15:53	1
13C8 PFOS	100		51 - 159	11/25/22 14:52	12/07/22 15:53	1
d5-NEtFOSAA	109		29 - 195	11/25/22 14:52	12/07/22 15:53	1
d9-N-EtFOSE-M	25		10 - 177	11/25/22 14:52	12/07/22 15:53	1
13C3 PFHxS	97		28 - 188	11/25/22 14:52	12/07/22 15:53	1
13C5 PFHxA	87		24 - 179	11/25/22 14:52	12/07/22 15:53	1
13C6 PFDA	94		49 - 163	11/25/22 14:52	12/07/22 15:53	1
13C7 PFUnA	89		34 - 174	11/25/22 14:52	12/07/22 15:53	1
d5-NEtPFOSA	5	*5-	10 - 159	11/25/22 14:52	12/07/22 15:53	1
13C8 FOSA	70		10 - 168	11/25/22 14:52	12/07/22 15:53	1
13C2-PFDoDA	98		17 - 176	11/25/22 14:52	12/07/22 15:53	1
13C9 PFNA	105		51 - 167	11/25/22 14:52	12/07/22 15:53	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: OUTFALL 001 2055

Lab Sample ID: 410-105783-29

Date Collected: 11/11/22 20:55

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	14		2.4	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
NMeFOSAA	0.48	U	1.6	0.48	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorobutanesulfonic acid	1.1	J	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorobutanoic acid	6.8		4.0	1.6	ng/L		11/25/22 14:52	12/07/22 16:04	1
HFPODA	0.80	J	2.4	0.80	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorodecanoic acid	8.5		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorododecanoic acid	6.8		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
NEtFOSA	0.80	U	4.0	0.80	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluoroheptanesulfonic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluoroheptanoic acid	16		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorohexanesulfonic acid	1.3	J	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorohexanoic acid	23		1.6	0.72	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorononanesulfonic acid	0.40	U	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorononanoic acid	4.6		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorooctanesulfonamide	4.0		1.6	0.56	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorooctanesulfonic acid	40		1.6	0.80	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorooctanoic acid	130		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluoropentanesulfonic acid	0.49	J	1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluoropentanoic acid	11		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorotetradecanoic acid	3.2		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluorotridecanoic acid	2.9		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
Perfluoroundecanoic acid	4.3		1.6	0.40	ng/L		11/25/22 14:52	12/07/22 16:04	1
6:2 Fluorotelomer sulfonic acid	26		4.0	3.4	ng/L		11/25/22 14:52	12/07/22 16:04	1
8:2 Fluorotelomer sulfonic acid	0.80	U	2.4	0.80	ng/L		11/25/22 14:52	12/07/22 16:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	262	*5+	17 - 200	11/25/22 14:52	12/07/22 16:04	1
M2-8:2 FTS	232	*5+	33 - 200	11/25/22 14:52	12/07/22 16:04	1
13C2 PFTeDA	84		10 - 179	11/25/22 14:52	12/07/22 16:04	1
13C3 HFPO-DA	76		17 - 185	11/25/22 14:52	12/07/22 16:04	1
13C3 PFBS	136		16 - 200	11/25/22 14:52	12/07/22 16:04	1
13C4 PFBA	112		42 - 165	11/25/22 14:52	12/07/22 16:04	1
13C4 PFHpA	109		31 - 182	11/25/22 14:52	12/07/22 16:04	1
13C5 PFPeA	126		38 - 187	11/25/22 14:52	12/07/22 16:04	1
13C8 PFOA	105		48 - 162	11/25/22 14:52	12/07/22 16:04	1
13C8 PFOS	116		51 - 159	11/25/22 14:52	12/07/22 16:04	1
d5-NEtFOSAA	125		29 - 195	11/25/22 14:52	12/07/22 16:04	1
d9-N-EtFOSE-M	39		10 - 177	11/25/22 14:52	12/07/22 16:04	1
13C3 PFHxS	115		28 - 188	11/25/22 14:52	12/07/22 16:04	1
13C5 PFHxA	107		24 - 179	11/25/22 14:52	12/07/22 16:04	1
13C6 PFDA	112		49 - 163	11/25/22 14:52	12/07/22 16:04	1
13C7 PFUnA	104		34 - 174	11/25/22 14:52	12/07/22 16:04	1
d5-NEtPFOSA	33		10 - 159	11/25/22 14:52	12/07/22 16:04	1
13C8 FOSA	84		10 - 168	11/25/22 14:52	12/07/22 16:04	1
13C2-PFDoDA	108		17 - 176	11/25/22 14:52	12/07/22 16:04	1
13C9 PFNA	126		51 - 167	11/25/22 14:52	12/07/22 16:04	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: EB-US

Lab Sample ID: 410-105783-31

Date Collected: 11/11/22 16:30

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.46	U	2.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
NMeFOSAA	0.55	U	1.8	0.55	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorobutanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorobutanoic acid	1.8	U	4.6	1.8	ng/L		11/25/22 14:52	12/07/22 16:27	1
HFPODA	0.92	U	2.8	0.92	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorodecanoic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorododecanoic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
NEtFOSA	0.92	U	4.6	0.92	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluoroheptanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluoroheptanoic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorohexanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorohexanoic acid	1.0	J	1.8	0.83	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorononanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorononanoic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorooctanesulfonamide	0.64	U	1.8	0.64	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorooctanesulfonic acid	0.92	U	1.8	0.92	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorooctanoic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluoropentanesulfonic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluoropentanoic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorotetradecanoic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluorotridecanoic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
Perfluoroundecanoic acid	0.46	U	1.8	0.46	ng/L		11/25/22 14:52	12/07/22 16:27	1
6:2 Fluorotelomer sulfonic acid	3.9	U	4.6	3.9	ng/L		11/25/22 14:52	12/07/22 16:27	1
8:2 Fluorotelomer sulfonic acid	0.92	U	2.8	0.92	ng/L		11/25/22 14:52	12/07/22 16:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	120		17 - 200	11/25/22 14:52	12/07/22 16:27	1
M2-8:2 FTS	116		33 - 200	11/25/22 14:52	12/07/22 16:27	1
13C2 PFTeDA	84		10 - 179	11/25/22 14:52	12/07/22 16:27	1
13C3 HFPO-DA	70		17 - 185	11/25/22 14:52	12/07/22 16:27	1
13C3 PFBS	98		16 - 200	11/25/22 14:52	12/07/22 16:27	1
13C4 PFBA	101		42 - 165	11/25/22 14:52	12/07/22 16:27	1
13C4 PFHpA	96		31 - 182	11/25/22 14:52	12/07/22 16:27	1
13C5 PFPeA	111		38 - 187	11/25/22 14:52	12/07/22 16:27	1
13C8 PFOA	96		48 - 162	11/25/22 14:52	12/07/22 16:27	1
13C8 PFOS	100		51 - 159	11/25/22 14:52	12/07/22 16:27	1
d5-NEtFOSAA	123		29 - 195	11/25/22 14:52	12/07/22 16:27	1
d9-N-EtFOSE-M	59		10 - 177	11/25/22 14:52	12/07/22 16:27	1
13C3 PFHxS	96		28 - 188	11/25/22 14:52	12/07/22 16:27	1
13C5 PFHxA	96		24 - 179	11/25/22 14:52	12/07/22 16:27	1
13C6 PFDA	95		49 - 163	11/25/22 14:52	12/07/22 16:27	1
13C7 PFUnA	115		34 - 174	11/25/22 14:52	12/07/22 16:27	1
d5-NEtPFOSA	55		10 - 159	11/25/22 14:52	12/07/22 16:27	1
13C8 FOSA	76		10 - 168	11/25/22 14:52	12/07/22 16:27	1
13C2-PFDoDA	101		17 - 176	11/25/22 14:52	12/07/22 16:27	1
13C9 PFNA	114		51 - 167	11/25/22 14:52	12/07/22 16:27	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: SW-MERR-101W 1905

Lab Sample ID: 410-105783-32

Date Collected: 11/11/22 19:05

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.47	U	2.8	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
NMeFOSAA	0.56	U	1.9	0.56	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorobutanesulfonic acid	0.90	J	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorobutanoic acid	1.9	U	4.7	1.9	ng/L		11/25/22 14:52	12/08/22 17:54	1
HFPODA	0.94	U	2.8	0.94	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorodecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorododecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
NEtFOSA	0.94	U	4.7	0.94	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluoroheptanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluoroheptanoic acid	1.0	J	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorohexanesulfonic acid	0.57	J	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorohexanoic acid	1.6	J	1.9	0.85	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorononanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorononanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorooctanesulfonamide	0.66	U	1.9	0.66	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorooctanesulfonic acid	0.95	J	1.9	0.94	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorooctanoic acid	2.4		1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluoropentanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluoropentanoic acid	1.7	J	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorotetradecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluorotridecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
Perfluoroundecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 17:54	1
6:2 Fluorotelomer sulfonic acid	4.0	U	4.7	4.0	ng/L		11/25/22 14:52	12/08/22 17:54	1
8:2 Fluorotelomer sulfonic acid	0.94	U	2.8	0.94	ng/L		11/25/22 14:52	12/08/22 17:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	197		17 - 200	11/25/22 14:52	12/08/22 17:54	1
M2-8:2 FTS	136		33 - 200	11/25/22 14:52	12/08/22 17:54	1
13C2 PFTeDA	37		10 - 179	11/25/22 14:52	12/08/22 17:54	1
13C3 HFPO-DA	113		17 - 185	11/25/22 14:52	12/08/22 17:54	1
13C3 PFBS	192		16 - 200	11/25/22 14:52	12/08/22 17:54	1
13C4 PFBA	108		42 - 165	11/25/22 14:52	12/08/22 17:54	1
13C4 PFHpA	107		31 - 182	11/25/22 14:52	12/08/22 17:54	1
13C5 PFPeA	156		38 - 187	11/25/22 14:52	12/08/22 17:54	1
13C8 PFOA	108		48 - 162	11/25/22 14:52	12/08/22 17:54	1
13C8 PFOS	121		51 - 159	11/25/22 14:52	12/08/22 17:54	1
d5-NEtFOSAA	104		29 - 195	11/25/22 14:52	12/08/22 17:54	1
d9-N-EtFOSE-M	13		10 - 177	11/25/22 14:52	12/08/22 17:54	1
13C3 PFHxS	108		28 - 188	11/25/22 14:52	12/08/22 17:54	1
13C5 PFHxA	106		24 - 179	11/25/22 14:52	12/08/22 17:54	1
13C6 PFDA	106		49 - 163	11/25/22 14:52	12/08/22 17:54	1
13C7 PFUnA	105		34 - 174	11/25/22 14:52	12/08/22 17:54	1
d5-NEtPFOSA	1 *5-		10 - 159	11/25/22 14:52	12/08/22 17:54	1
13C8 FOSA	82		10 - 168	11/25/22 14:52	12/08/22 17:54	1
13C2-PFDoDA	81		17 - 176	11/25/22 14:52	12/08/22 17:54	1
13C9 PFNA	128		51 - 167	11/25/22 14:52	12/08/22 17:54	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: SW-MERR-101W 1945

Lab Sample ID: 410-105783-33

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.47	U	2.8	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
NMeFOSAA	0.57	U	1.9	0.57	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorobutanesulfonic acid	0.85	J	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorobutanoic acid	1.9	U	4.7	1.9	ng/L		11/25/22 14:52	12/08/22 18:05	1
HFPODA	0.95	U	2.8	0.95	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorodecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorododecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
NEtFOSA	0.95	U	4.7	0.95	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluoroheptanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluoroheptanoic acid	0.96	J	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorohexanesulfonic acid	0.67	J	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorohexanoic acid	1.4	J	1.9	0.85	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorononanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorononanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorooctanesulfonamide	0.66	U	1.9	0.66	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorooctanesulfonic acid	1.1	J	1.9	0.95	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorooctanoic acid	2.5		1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluoropentanesulfonic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluoropentanoic acid	0.84	J	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorotetradecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluorotridecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
Perfluoroundecanoic acid	0.47	U	1.9	0.47	ng/L		11/25/22 14:52	12/08/22 18:05	1
6:2 Fluorotelomer sulfonic acid	4.0	U	4.7	4.0	ng/L		11/25/22 14:52	12/08/22 18:05	1
8:2 Fluorotelomer sulfonic acid	0.95	U	2.8	0.95	ng/L		11/25/22 14:52	12/08/22 18:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	182		17 - 200	11/25/22 14:52	12/08/22 18:05	1
M2-8:2 FTS	134		33 - 200	11/25/22 14:52	12/08/22 18:05	1
13C2 PFTeDA	8	*5-	10 - 179	11/25/22 14:52	12/08/22 18:05	1
13C3 HFPO-DA	102		17 - 185	11/25/22 14:52	12/08/22 18:05	1
13C3 PFBS	193		16 - 200	11/25/22 14:52	12/08/22 18:05	1
13C4 PFBA	108		42 - 165	11/25/22 14:52	12/08/22 18:05	1
13C4 PFHpA	103		31 - 182	11/25/22 14:52	12/08/22 18:05	1
13C5 PFPeA	155		38 - 187	11/25/22 14:52	12/08/22 18:05	1
13C8 PFOA	100		48 - 162	11/25/22 14:52	12/08/22 18:05	1
13C8 PFOS	115		51 - 159	11/25/22 14:52	12/08/22 18:05	1
d5-NEtFOSAA	99		29 - 195	11/25/22 14:52	12/08/22 18:05	1
d9-N-EtFOSE-M	5	*5-	10 - 177	11/25/22 14:52	12/08/22 18:05	1
13C3 PFHxS	105		28 - 188	11/25/22 14:52	12/08/22 18:05	1
13C5 PFHxA	99		24 - 179	11/25/22 14:52	12/08/22 18:05	1
13C6 PFDA	106		49 - 163	11/25/22 14:52	12/08/22 18:05	1
13C7 PFUnA	95		34 - 174	11/25/22 14:52	12/08/22 18:05	1
d5-NEtPFOSA	2	*5-	10 - 159	11/25/22 14:52	12/08/22 18:05	1
13C8 FOSA	94		10 - 168	11/25/22 14:52	12/08/22 18:05	1
13C2-PFDoDA	62		17 - 176	11/25/22 14:52	12/08/22 18:05	1
13C9 PFNA	107		51 - 167	11/25/22 14:52	12/08/22 18:05	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: FB-DS

Lab Sample ID: 410-105783-34

Date Collected: 11/11/22 16:05

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.43	U	2.6	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
NMeFOSAA	0.52	U	1.7	0.52	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorobutanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorobutanoic acid	1.7	U	4.3	1.7	ng/L		11/25/22 14:52	12/07/22 17:11	1
HFPODA	0.86	U	2.6	0.86	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorodecanoic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorododecanoic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
NEtFOSA	0.86	U	4.3	0.86	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluoroheptanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluoroheptanoic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorohexanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorohexanoic acid	0.78	U	1.7	0.78	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorononanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorononanoic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorooctanesulfonamide	0.60	U	1.7	0.60	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorooctanesulfonic acid	0.86	U	1.7	0.86	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorooctanoic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluoropentanesulfonic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluoropentanoic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorotetradecanoic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluorotridecanoic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
Perfluoroundecanoic acid	0.43	U	1.7	0.43	ng/L		11/25/22 14:52	12/07/22 17:11	1
6:2 Fluorotelomer sulfonic acid	3.6	U	4.3	3.6	ng/L		11/25/22 14:52	12/07/22 17:11	1
8:2 Fluorotelomer sulfonic acid	0.86	U	2.6	0.86	ng/L		11/25/22 14:52	12/07/22 17:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	113		17 - 200	11/25/22 14:52	12/07/22 17:11	1
M2-8:2 FTS	116		33 - 200	11/25/22 14:52	12/07/22 17:11	1
13C2 PFTeDA	101		10 - 179	11/25/22 14:52	12/07/22 17:11	1
13C3 HFPO-DA	83		17 - 185	11/25/22 14:52	12/07/22 17:11	1
13C3 PFBS	114		16 - 200	11/25/22 14:52	12/07/22 17:11	1
13C4 PFBA	119		42 - 165	11/25/22 14:52	12/07/22 17:11	1
13C4 PFHpA	115		31 - 182	11/25/22 14:52	12/07/22 17:11	1
13C5 PFPeA	126		38 - 187	11/25/22 14:52	12/07/22 17:11	1
13C8 PFOA	110		48 - 162	11/25/22 14:52	12/07/22 17:11	1
13C8 PFOS	110		51 - 159	11/25/22 14:52	12/07/22 17:11	1
d5-NEtFOSAA	117		29 - 195	11/25/22 14:52	12/07/22 17:11	1
d9-N-EtFOSE-M	91		10 - 177	11/25/22 14:52	12/07/22 17:11	1
13C3 PFHxS	115		28 - 188	11/25/22 14:52	12/07/22 17:11	1
13C5 PFHxA	113		24 - 179	11/25/22 14:52	12/07/22 17:11	1
13C6 PFDA	108		49 - 163	11/25/22 14:52	12/07/22 17:11	1
13C7 PFUnA	107		34 - 174	11/25/22 14:52	12/07/22 17:11	1
d5-NEtPFOSA	90		10 - 159	11/25/22 14:52	12/07/22 17:11	1
13C8 FOSA	92		10 - 168	11/25/22 14:52	12/07/22 17:11	1
13C2-PFDoDA	110		17 - 176	11/25/22 14:52	12/07/22 17:11	1
13C9 PFNA	117		51 - 167	11/25/22 14:52	12/07/22 17:11	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-SE 1750

Lab Sample ID: 410-105783-35

Date Collected: 11/11/22 17:50

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	8.2	cn	2.6	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
NMeFOSAA	0.52	U cn	1.7	0.52	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorobutanesulfonic acid	0.44	U cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorobutanoic acid	100	cn	4.4	1.7	ng/L		11/25/22 14:52	12/08/22 18:27	1
HFPODA	4.2	cn	2.6	0.87	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorodecanoic acid	16	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorododecanoic acid	5.1	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
NEtFOSA	0.87	U cn	4.4	0.87	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluoroheptanesulfonic acid	0.44	U cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluoroheptanoic acid	77	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorohexanesulfonic acid	2.1	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorohexanoic acid	140	cn	1.7	0.79	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorononanesulfonic acid	0.44	U cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorononanoic acid	11	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorooctanesulfonamide	2.4	cn	1.7	0.61	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorooctanesulfonic acid	38	cn	1.7	0.87	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorooctanoic acid	310	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluoropentanesulfonic acid	0.44	U cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluoropentanoic acid	79	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorotetradecanoic acid	2.9	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluorotridecanoic acid	2.0	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
Perfluoroundecanoic acid	5.2	cn	1.7	0.44	ng/L		11/25/22 14:52	12/08/22 18:27	1
6:2 Fluorotelomer sulfonic acid	18	cn	4.4	3.7	ng/L		11/25/22 14:52	12/08/22 18:27	1
8:2 Fluorotelomer sulfonic acid	0.87	U cn	2.6	0.87	ng/L		11/25/22 14:52	12/08/22 18:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	497	*5+ cn	17 - 200	11/25/22 14:52	12/08/22 18:27	1
M2-8:2 FTS	394	*5+ cn	33 - 200	11/25/22 14:52	12/08/22 18:27	1
13C2 PFTeDA	114	cn	10 - 179	11/25/22 14:52	12/08/22 18:27	1
13C3 HFPO-DA	73	cn	17 - 185	11/25/22 14:52	12/08/22 18:27	1
13C3 PFBS	285	*5+ cn	16 - 200	11/25/22 14:52	12/08/22 18:27	1
13C4 PFBA	58	cn	42 - 165	11/25/22 14:52	12/08/22 18:27	1
13C4 PFHpA	90	cn	31 - 182	11/25/22 14:52	12/08/22 18:27	1
13C5 PFPeA	96	cn	38 - 187	11/25/22 14:52	12/08/22 18:27	1
13C8 PFOA	94	cn	48 - 162	11/25/22 14:52	12/08/22 18:27	1
13C8 PFOS	119	cn	51 - 159	11/25/22 14:52	12/08/22 18:27	1
d5-NEtFOSAA	123	cn	29 - 195	11/25/22 14:52	12/08/22 18:27	1
d9-N-EtFOSE-M	21	cn	10 - 177	11/25/22 14:52	12/08/22 18:27	1
13C3 PFHxS	172	cn	28 - 188	11/25/22 14:52	12/08/22 18:27	1
13C5 PFHxA	72	cn	24 - 179	11/25/22 14:52	12/08/22 18:27	1
13C6 PFDA	115	cn	49 - 163	11/25/22 14:52	12/08/22 18:27	1
13C7 PFUnA	121	cn	34 - 174	11/25/22 14:52	12/08/22 18:27	1
d5-NEtPFOSA	0.7	*5- cn	10 - 159	11/25/22 14:52	12/08/22 18:27	1
13C8 FOSA	44	cn	10 - 168	11/25/22 14:52	12/08/22 18:27	1
13C2-PFDoDA	125	cn	17 - 176	11/25/22 14:52	12/08/22 18:27	1
13C9 PFNA	85	cn	51 - 167	11/25/22 14:52	12/08/22 18:27	1

Client Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-SE 1945

Lab Sample ID: 410-105783-36

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Method: ELLE - Lancaster T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	4.9		2.7	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
NMeFOSAA	0.54	U	1.8	0.54	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorobutanesulfonic acid	0.45	U	1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorobutanoic acid	5.4		4.5	1.8	ng/L		11/25/22 14:52	12/07/22 17:33	1
HFPODA	1.4	J I	2.7	0.90	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorodecanoic acid	3.0		1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorododecanoic acid	2.9		1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
NEtFOSA	0.90	U	4.5	0.90	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluoroheptanesulfonic acid	0.45	U	1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluoroheptanoic acid	7.5		1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorohexanesulfonic acid	0.45	U	1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorohexanoic acid	15		1.8	0.81	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorononanesulfonic acid	0.45	U	1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorononanoic acid	1.7	J	1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorooctanesulfonamide	2.0		1.8	0.63	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorooctanesulfonic acid	7.2		1.8	0.90	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorooctanoic acid	37		1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluoropentanesulfonic acid	0.45	U	1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluoropentanoic acid	6.2		1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorotetradecanoic acid	1.7	J	1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluorotridecanoic acid	0.98	J	1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
Perfluoroundecanoic acid	1.1	J	1.8	0.45	ng/L		11/25/22 14:52	12/07/22 17:33	1
6:2 Fluorotelomer sulfonic acid	3.8	U	4.5	3.8	ng/L		11/25/22 14:52	12/07/22 17:33	1
8:2 Fluorotelomer sulfonic acid	0.90	U	2.7	0.90	ng/L		11/25/22 14:52	12/07/22 17:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	246	*5+ cn	17 - 200	11/25/22 14:52	12/07/22 17:33	1
M2-8:2 FTS	218	*5+ cn	33 - 200	11/25/22 14:52	12/07/22 17:33	1
13C2 PFTeDA	50		10 - 179	11/25/22 14:52	12/07/22 17:33	1
13C3 HFPO-DA	63		17 - 185	11/25/22 14:52	12/07/22 17:33	1
13C3 PFBS	122		16 - 200	11/25/22 14:52	12/07/22 17:33	1
13C4 PFBA	100		42 - 165	11/25/22 14:52	12/07/22 17:33	1
13C4 PFHpA	94		31 - 182	11/25/22 14:52	12/07/22 17:33	1
13C5 PFPeA	117		38 - 187	11/25/22 14:52	12/07/22 17:33	1
13C8 PFOA	92		48 - 162	11/25/22 14:52	12/07/22 17:33	1
13C8 PFOS	111		51 - 159	11/25/22 14:52	12/07/22 17:33	1
d5-NEtFOSAA	110		29 - 195	11/25/22 14:52	12/07/22 17:33	1
d9-N-EtFOSE-M	26		10 - 177	11/25/22 14:52	12/07/22 17:33	1
13C3 PFHxS	101		28 - 188	11/25/22 14:52	12/07/22 17:33	1
13C5 PFHxA	94		24 - 179	11/25/22 14:52	12/07/22 17:33	1
13C6 PFDA	100		49 - 163	11/25/22 14:52	12/07/22 17:33	1
13C7 PFUnA	98		34 - 174	11/25/22 14:52	12/07/22 17:33	1
d5-NEtPFOSA	25		10 - 159	11/25/22 14:52	12/07/22 17:33	1
13C8 FOSA	72		10 - 168	11/25/22 14:52	12/07/22 17:33	1
13C2-PFDoDA	86		17 - 176	11/25/22 14:52	12/07/22 17:33	1
13C9 PFNA	118		51 - 167	11/25/22 14:52	12/07/22 17:33	1

Isotope Dilution Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS (17-200)	M282FTS (33-200)	PFTDA (10-179)	HFPODA (17-185)	C3PFBS (16-200)	PFBA (42-165)	C4PFHA (31-182)	PFPeA (38-187)
410-105783-2	RP-EB	115	103	89	105	215 *5+ cn	103	110	210 *5+ cn
410-105783-3	RP-1 1740	412 *5+ cn	332 *5+ cn	116	49	476 *5+ cn	61	74	116
410-105783-3 - DL	RP-1 1740								
410-105783-4	RP-2 1800	283 *5+ cn	252 *5+ cn	92 cn	48 cn	374 *5+ cn	62 cn	68 cn	106 cn
410-105783-4 - DL	RP-2 1800	193 cn							
410-105783-5	RP-3 1815	136 cn	126 cn	72 cn	77 cn	151 cn	101 cn	119 cn	120 cn
410-105783-5 - DL	RP-3 1815								
410-105783-6	RP-4 1835	188 cn	129 cn	69 cn	58 cn	225 *5+ cn	67 cn	80 cn	131 cn
410-105783-7	RP-1 2020	246 *5+ cn	214 *5+ cn	63 cn	64 cn	528 *5+ cn	72 cn	82 cn	384 *5+ cn
410-105783-7 - RA	RP-1 2020	152 cn	126 cn	73 cn	80 cn	492 *5+ cn	88 cn	89 cn	465 *5+ cn
410-105783-8	RP-2 2025	263 *5+ cn	266 *5+ cn	77 cn	58 cn	218 *5+ cn	79 cn	81 cn	160 cn
410-105783-9	RP-3 2035	198	204 *5+ cn	55	65	298 *5+ cn	85	81	208 *5+ cn
410-105783-9 - RA	RP-3 2035	137	140 cn	72	62	217 *5+ cn	88	92	223 *5+ cn
410-105783-10	RP-4 2045	183	149	63	63	588 *5+ cn	85 cn	81	468 *5+ cn
410-105783-10 - RA	RP-4 2045	135	107	60	69	433 *5+ cn	81 cn	85	420 *5+ cn
410-105783-11	EB-DS	116	102	94	67	104	89	101	87
410-105783-12	SW-MERR-202W 1905	140	96	67	77	176	92	99	152
410-105783-13	SW-MERR-202W 1945	137	90	52	76	173	98	98	157
410-105783-14	EB-RD	98	97	87	57	95	82	83	77
410-105783-16	RD-MB-SW 1740	270 *5+ cn	185 cn	59 cn	52 cn	138 cn	80 cn	80 cn	82 cn
410-105783-17	RD-MB-SW 1945	280 *5+ cn	215 *5+ cn	59	64	118	84	79	85
410-105783-18	RD-MB-NW 1740	256 *5+ cn	198 cn	75 cn	59 cn	124 cn	74 cn	79 cn	81 cn
410-105783-19	RD-MB-NW 1945	284 *5+ cn	240 *5+ cn	64	46	134	73	69	77
410-105783-20	RD-NMB 1740	300 *5+ cn	288 *5+ cn	64	61	125	77	85	79
410-105783-20 - DL	RD-NMB 1740								
410-105783-21	RD-NMB 1945	213 *5+ cn	182	64	68	109	85	90	91
410-105783-22	RD-MB-NE 1740	326 *5+ cn	367 *5+ cn	34 cn	55 cn	409 *5+ cn	75 cn	99 cn	131 cn
410-105783-22 - DL	RD-MB-NE 1740	288 *5+ cn						105	
410-105783-22 - DL2	RD-MB-NE 1740								
410-105783-23	RD-MB-NE 1945	194	279 *5+ cn	12	80	150	102	125	115
410-105783-23 - DL	RD-MB-NE 1945								
410-105783-24	TB-1	121	123	96	76	112	112	111	121
410-105783-25	EB-OUTFALL	109	111	94	72	104	106	107	118
410-105783-26	OUTFALL 001 1905	257 *5+ cn	284 *5+ cn	73 cn	75 cn	215 *5+ cn	97 cn	110 cn	132 cn
410-105783-26 - DL	OUTFALL 001 1905								

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (17-200)	M282FTS (33-200)	PFTDA (10-179)	HFPODA (17-185)	C3PFBS (16-200)	PFBA (42-165)	C4PFHA (31-182)	PFPaA (38-187)
410-105783-27	OUTFALL 001 1945	295 *5+	304 *5+	92	95	176	80	95	97
410-105783-27 - DL	OUTFALL 001 1945								
410-105783-28	OUTFALL 001 2025	251 *5+	240 *5+	70	55	124	92	90	101
410-105783-29	OUTFALL 001 2055	262 *5+	232 *5+	84	76	136	112	109	126
410-105783-31	EB-US	120	116	84	70	98	101	96	111
410-105783-32	SW-MERR-101W 1905	197	136	37	113	192	108	107	156
410-105783-33	SW-MERR-101W 1945	182	134	8 *5-	102	193	108	103	155
410-105783-34	FB-DS	113	116	101	83	114	119	115	126
410-105783-35	RD-MB-SE 1750	497 *5+ cn	394 *5+ cn	114 cn	73 cn	285 *5+ cn	58 cn	90 cn	96 cn
410-105783-36	RD-MB-SE 1945	246 *5+ cn	218 *5+ cn	50	63	122	100	94	117
LCS 410-320738/2-A	Lab Control Sample	95	92	85	92	85	90	94	86
LCS 410-320869/2-A	Lab Control Sample	89	85	88	68	102	89	84	90
LCS 410-320870/2-A	Lab Control Sample	111	109	94	73	107	108	110	114
LCSD 410-320738/3-A	Lab Control Sample Dup	96	99	90	109	85	93	97	90
LCSD 410-320869/3-A	Lab Control Sample Dup	88	96	91	64	90	84	83	80
LCSD 410-320870/3-A	Lab Control Sample Dup	114	118	102	80	111	115	118	131
MB 410-320738/1-A	Method Blank	112	111	98	103	101	104	107	97
MB 410-320869/1-A	Method Blank	79	80	81	71	91	86	92	79
MB 410-320870/1-A	Method Blank	110	106	90	85	105	108	119	122
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C8PFOA (48-162)	C8PFOS (51-159)	d3NMFOs (31-174)	d5NEFOs (29-195)	NEFM (10-177)	C3PFHS (28-188)	13C5PHA (24-179)	C6PFDA (49-163)
410-105783-2	RP-EB	108	108		103	83	110	108	103
410-105783-3	RP-1 1740	78	94		100	48	187	55	87
410-105783-3 - DL	RP-1 1740	107							
410-105783-4	RP-2 1800	64 cn	94 cn		92 cn	32 cn	152 cn	52 cn	77 cn
410-105783-4 - DL	RP-2 1800	98 cn						95 cn	
410-105783-5	RP-3 1815	93 cn	118 cn		89 cn	42 cn	130 cn	109 cn	98 cn
410-105783-5 - DL	RP-3 1815	121							
410-105783-6	RP-4 1835	76 cn	89 cn		80 cn	12 cn	94 cn	70 cn	88 cn
410-105783-7	RP-1 2020	88 cn	96 cn		97 cn	20 cn	100 cn	88 cn	82 cn
410-105783-7 - RA	RP-1 2020	87 cn	96 cn		90 cn	22 cn	92 cn	87 cn	92 cn
410-105783-8	RP-2 2025	79 cn	94 cn		102 cn	14 cn	106 cn	86 cn	91 cn
410-105783-9	RP-3 2035	87	98		98	40	97	86	94
410-105783-9 - RA	RP-3 2035	82	94		98	48	88	93	92
410-105783-10	RP-4 2045	88	98		96	16	100	86	83
410-105783-10 - RA	RP-4 2045	88	94		89	17	88	93	83
410-105783-11	EB-DS	94	101		96	78	103	99	85
410-105783-12	SW-MERR-202W 1905	91	97		85	26	96	89	86
410-105783-13	SW-MERR-202W 1945	94	98		83	12	91	93	91
410-105783-14	EB-RD	81	89		103	56	89	81	80
410-105783-16	RD-MB-SW 1740	82 cn	93 cn		83 cn	39 cn	98 cn	75 cn	85 cn
410-105783-17	RD-MB-SW 1945	87	100		90	9 *5- cn	96	85	84
410-105783-18	RD-MB-NW 1740	82 cn	91 cn		93 cn	60 cn	97 cn	73 cn	85 cn
410-105783-19	RD-MB-NW 1945	73	83		89	15	95	70	79
410-105783-20	RD-NMB 1740	81	94		92	29	110	80	83
410-105783-20 - DL	RD-NMB 1740	105							
410-105783-21	RD-NMB 1945	88	93		85	37	100	87	86

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C8PFOA (48-162)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)	NEFM (10-177)	C3PFHS (28-188)	13C5PHA (24-179)	C6PFDA (49-163)
410-105783-22	RD-MB-NE 1740	75 cn	105 cn		107 cn	34 cn	206 *5+ cn	71 cn	108 cn
410-105783-22 - DL	RD-MB-NE 1740		115					97	
410-105783-22 - DL2	RD-MB-NE 1740	123							
410-105783-23	RD-MB-NE 1945	93	112		126	14	139	112	111
410-105783-23 - DL	RD-MB-NE 1945	100	108						
410-105783-24	TB-1	109	113		113	87	108	111	106
410-105783-25	EB-OUTFALL	104	108		120	85	104	105	108
410-105783-26	OUTFALL 001 1905	92 cn	106 cn		120 cn	26 cn	143 cn	95 cn	111 cn
410-105783-26 - DL	OUTFALL 001 1905	97							
410-105783-27	OUTFALL 001 1945	88	106		112	34	128	85	101
410-105783-27 - DL	OUTFALL 001 1945	82							
410-105783-28	OUTFALL 001 2025	86	100		109	25	97	87	94
410-105783-29	OUTFALL 001 2055	105	116		125	39	115	107	112
410-105783-31	EB-US	96	100		123	59	96	96	95
410-105783-32	SW-MERR-101W 1905	108	121		104	13	108	106	106
410-105783-33	SW-MERR-101W 1945	100	115		99	5 *5-	105	99	106
410-105783-34	FB-DS	110	110		117	91	115	113	108
410-105783-35	RD-MB-SE 1750	94 cn	119 cn		123 cn	21 cn	172 cn	72 cn	115 cn
410-105783-36	RD-MB-SE 1945	92	111		110	26	101	94	100
LCS 410-320738/2-A	Lab Control Sample	90	99	87	86	67	94	93	86
LCS 410-320869/2-A	Lab Control Sample	92	94	81	89	69	90	86	86
LCS 410-320870/2-A	Lab Control Sample	111	112	114	115	83	110	112	111
LCSD 410-320738/3-A	Lab Control Sample Dup	94	102	91	91	61	96	99	86
LCSD 410-320869/3-A	Lab Control Sample Dup	86	92	86	90	69	91	87	85
LCSD 410-320870/3-A	Lab Control Sample Dup	113	117	115	113	92	116	112	112
MB 410-320738/1-A	Method Blank	103	109	104	109	82	108	112	100
MB 410-320869/1-A	Method Blank	86	94	74	76	64	97	84	85
MB 410-320870/1-A	Method Blank	111	113	109	114	85	113	113	104
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (34-174)	d3NMFSA (10-155)	d5NPFSA (10-159)	PFOSA (10-168)	PFDoDA (17-176)	C9PFNA (51-167)		
410-105783-2	RP-EB	105		77	87	95	113		
410-105783-3	RP-1 1740	104		12	46	113	54		
410-105783-3 - DL	RP-1 1740								
410-105783-4	RP-2 1800	90 cn		9 *5- cn	38 cn	88 cn	58 cn		
410-105783-4 - DL	RP-2 1800								
410-105783-5	RP-3 1815	95 cn		10 cn	60 cn	95 cn	124 cn		
410-105783-5 - DL	RP-3 1815								
410-105783-6	RP-4 1835	82 cn		4 *5- cn	33 cn	90 cn	90 cn		
410-105783-7	RP-1 2020	86 cn		25 cn	72 cn	75 cn	87 cn		
410-105783-7 - RA	RP-1 2020	89 cn		27 cn	71 cn	87 cn	104 cn		
410-105783-8	RP-2 2025	82 cn		10 cn	80 cn	79 cn	83 cn		
410-105783-9	RP-3 2035	86		43	72	74	89		
410-105783-9 - RA	RP-3 2035	92		48	67	82	104		
410-105783-10	RP-4 2045	83		23	72	68	87		
410-105783-10 - RA	RP-4 2045	84		25	68	79	115		
410-105783-11	EB-DS	93		75	78	89	83		
410-105783-12	SW-MERR-202W 1905	88		12	43	87	104		
410-105783-13	SW-MERR-202W 1945	80		4 *5- cn	32	81	106		

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)					
		13C7PUA (34-174)	d3NMFSA (10-155)	d5NPFSA (10-159)	PFOSA (10-168)	PFDODA (17-176)	C9PFNA (51-167)
410-105783-14	EB-RD	88		41	75	80	83
410-105783-16	RD-MB-SW 1740	77 cn		36 cn	58 cn	67 cn	84 cn
410-105783-17	RD-MB-SW 1945	80		8 *5- cn	65	73	97
410-105783-18	RD-MB-NW 1740	76 cn		44 cn	64 cn	74 cn	84 cn
410-105783-19	RD-MB-NW 1945	72		4 *5- cn	64	77	74
410-105783-20	RD-NMB 1740	89		9 *5- cn	41	83	82
410-105783-20 - DL	RD-NMB 1740						
410-105783-21	RD-NMB 1945	73		38	61	66	92
410-105783-22	RD-MB-NE 1740	109 cn		3 *5- cn	51 cn	111 cn	87 cn
410-105783-22 - DL	RD-MB-NE 1740						
410-105783-22 - DL2	RD-MB-NE 1740						
410-105783-23	RD-MB-NE 1945	90		29	90	65	114
410-105783-23 - DL	RD-MB-NE 1945						
410-105783-24	TB-1	106		76	89	115	117
410-105783-25	EB-OUTFALL	107		81	85	110	111
410-105783-26	OUTFALL 001 1905	109 cn		4 *5- cn	50 cn	108 cn	100 cn
410-105783-26 - DL	OUTFALL 001 1905						
410-105783-27	OUTFALL 001 1945	107		3 *5-	59	104	94
410-105783-27 - DL	OUTFALL 001 1945						
410-105783-28	OUTFALL 001 2025	89		5 *5-	70	98	105
410-105783-29	OUTFALL 001 2055	104		33	84	108	126
410-105783-31	EB-US	115		55	76	101	114
410-105783-32	SW-MERR-101W 1905	105		1 *5-	82	81	128
410-105783-33	SW-MERR-101W 1945	95		2 *5-	94	62	107
410-105783-34	FB-DS	107		90	92	110	117
410-105783-35	RD-MB-SE 1750	121 cn		0.7 *5- cn	44 cn	125 cn	85 cn
410-105783-36	RD-MB-SE 1945	98		25	72	86	118
LCS 410-320738/2-A	Lab Control Sample	83	54	63	81	81	98
LCS 410-320869/2-A	Lab Control Sample	89	59	65	74	83	83
LCS 410-320870/2-A	Lab Control Sample	109	71	72	83	115	110
LCSD 410-320738/3-A	Lab Control Sample Dup	90	54	57	83	84	100
LCSD 410-320869/3-A	Lab Control Sample Dup	88	58	65	72	79	81
LCSD 410-320870/3-A	Lab Control Sample Dup	115	74	80	89	116	115
MB 410-320738/1-A	Method Blank	102	57	64	93	97	108
MB 410-320869/1-A	Method Blank	87	57	68	70	72	82
MB 410-320870/1-A	Method Blank	105	70	77	82	103	115

Surrogate Legend

M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA

Isotope Dilution Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

NEFM = d9-N-EtFOSE-M
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
d3NMFSA = d3-NMePFOSA
d5NPFSA = d5-NEtPFOSA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA

- 1
- 2
- 3
- 4
- 5
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- 8
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- 11
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- 13
- 14
- 15

QC Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13

Lab Sample ID: MB 410-320738/1-A

Matrix: Water

Analysis Batch: 323455

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 320738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.50	U	3.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
NMeFOSAA	0.60	U	2.0	0.60	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorobutanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorobutanoic acid	2.0	U	5.0	2.0	ng/L		11/23/22 15:21	12/04/22 19:17	1
HFPODA	1.0	U	3.0	1.0	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorodecanoic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorododecanoic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
NEtFOSA	1.0	U	5.0	1.0	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoroheptanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoroheptanoic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorohexanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorohexanoic acid	0.90	U	2.0	0.90	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorononanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorononanoic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorooctanesulfonamide	0.70	U	2.0	0.70	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorooctanesulfonic acid	1.0	U	2.0	1.0	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorooctanoic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoropentanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoropentanoic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorotetradecanoic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorotridecanoic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoroundecanoic acid	0.50	U	2.0	0.50	ng/L		11/23/22 15:21	12/04/22 19:17	1
6:2 Fluorotelomer sulfonic acid	4.2	U	5.0	4.2	ng/L		11/23/22 15:21	12/04/22 19:17	1
8:2 Fluorotelomer sulfonic acid	1.0	U	3.0	1.0	ng/L		11/23/22 15:21	12/04/22 19:17	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	112		17 - 200	11/23/22 15:21	12/04/22 19:17	1
M2-8:2 FTS	111		33 - 200	11/23/22 15:21	12/04/22 19:17	1
13C2 PFTeDA	98		10 - 179	11/23/22 15:21	12/04/22 19:17	1
13C3 HFPO-DA	103		17 - 185	11/23/22 15:21	12/04/22 19:17	1
13C3 PFBS	101		16 - 200	11/23/22 15:21	12/04/22 19:17	1
13C4 PFBA	104		42 - 165	11/23/22 15:21	12/04/22 19:17	1
13C4 PFHpA	107		31 - 182	11/23/22 15:21	12/04/22 19:17	1
13C5 PFPeA	97		38 - 187	11/23/22 15:21	12/04/22 19:17	1
13C8 PFOA	103		48 - 162	11/23/22 15:21	12/04/22 19:17	1
13C8 PFOS	109		51 - 159	11/23/22 15:21	12/04/22 19:17	1
d5-NEtFOSAA	109		29 - 195	11/23/22 15:21	12/04/22 19:17	1
d9-N-EtFOSE-M	82		10 - 177	11/23/22 15:21	12/04/22 19:17	1
13C3 PFHxS	108		28 - 188	11/23/22 15:21	12/04/22 19:17	1
13C5 PFHxA	112		24 - 179	11/23/22 15:21	12/04/22 19:17	1
13C6 PFDA	100		49 - 163	11/23/22 15:21	12/04/22 19:17	1
13C7 PFUnA	102		34 - 174	11/23/22 15:21	12/04/22 19:17	1
d5-NEtPFOSA	64		10 - 159	11/23/22 15:21	12/04/22 19:17	1
13C8 FOSA	93		10 - 168	11/23/22 15:21	12/04/22 19:17	1
13C2-PFDoDA	97		17 - 176	11/23/22 15:21	12/04/22 19:17	1
13C9 PFNA	108		51 - 167	11/23/22 15:21	12/04/22 19:17	1

QC Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Lab Sample ID: LCS 410-320738/2-A

Matrix: Water

Analysis Batch: 323455

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 320738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSAA	25.6	26.3		ng/L		103	55 - 134
NMeFOSAA	25.6	26.3		ng/L		103	59 - 140
Perfluorobutanesulfonic acid	22.7	24.8		ng/L		110	53 - 138
Perfluorobutanoic acid	25.6	23.7		ng/L		93	59 - 136
HFPODA	25.6	24.0		ng/L		94	50 - 135
Perfluorodecanoic acid	25.6	26.7		ng/L		104	56 - 138
Perfluorododecanoic acid	25.6	25.7		ng/L		100	59 - 143
NEtFOSA	25.6	28.3		ng/L		110	61 - 134
Perfluoroheptanesulfonic acid	24.4	22.9		ng/L		94	56 - 140
Perfluoroheptanoic acid	25.6	27.8		ng/L		108	59 - 145
Perfluorohexanesulfonic acid	23.3	23.5		ng/L		100	58 - 134
Perfluorohexanoic acid	25.6	25.2		ng/L		98	58 - 139
Perfluorononanesulfonic acid	24.6	24.2		ng/L		98	59 - 136
Perfluorononanoic acid	25.6	26.0		ng/L		102	61 - 139
Perfluorooctanesulfonamide	25.6	26.3		ng/L		103	43 - 167
Perfluorooctanesulfonic acid	23.7	24.2		ng/L		102	45 - 150
Perfluorooctanoic acid	25.6	26.3		ng/L		103	51 - 145
Perfluoropentanesulfonic acid	24.0	25.8		ng/L		108	55 - 140
Perfluoropentanoic acid	25.6	26.2		ng/L		102	57 - 141
Perfluorotetradecanoic acid	25.6	25.9		ng/L		101	62 - 139
Perfluorotridecanoic acid	25.6	27.3		ng/L		107	58 - 146
Perfluoroundecanoic acid	25.6	27.2		ng/L		106	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	24.8		ng/L		102	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	24.2		ng/L		99	55 - 138

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	95		17 - 200
M2-8:2 FTS	92		33 - 200
13C2 PFTeDA	85		10 - 179
13C3 HFPO-DA	92		17 - 185
13C3 PFBS	85		16 - 200
13C4 PFBA	90		42 - 165
13C4 PFHpA	94		31 - 182
13C5 PFPeA	86		38 - 187
13C8 PFOA	90		48 - 162
13C8 PFOS	99		51 - 159
d3-NMeFOSAA	87		31 - 174
d5-NEtFOSAA	86		29 - 195
d9-N-EtFOSE-M	67		10 - 177
13C3 PFHxS	94		28 - 188
13C5 PFHxA	93		24 - 179
13C6 PFDA	86		49 - 163
13C7 PFUnA	83		34 - 174
d3-NMePFOSA	54		10 - 155
d5-NEtPFOSA	63		10 - 159
13C8 FOSA	81		10 - 168
13C2-PFDoDA	81		17 - 176
13C9 PFNA	98		51 - 167

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QC Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Lab Sample ID: LCSD 410-320738/3-A

Matrix: Water

Analysis Batch: 323455

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 320738

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA	25.6	26.7		ng/L		104	55 - 134	2	30
NMeFOSAA	25.6	25.9		ng/L		101	59 - 140	2	30
Perfluorobutanesulfonic acid	22.7	24.9		ng/L		110	53 - 138	0	30
Perfluorobutanoic acid	25.6	23.9		ng/L		93	59 - 136	1	30
HFPODA	25.6	22.0		ng/L		86	50 - 135	9	30
Perfluorodecanoic acid	25.6	28.7		ng/L		112	56 - 138	8	30
Perfluorododecanoic acid	25.6	26.4		ng/L		103	59 - 143	3	30
NEtFOSA	25.6	29.0		ng/L		113	61 - 134	3	30
Perfluoroheptanesulfonic acid	24.4	23.5		ng/L		96	56 - 140	2	30
Perfluoroheptanoic acid	25.6	26.7		ng/L		104	59 - 145	4	30
Perfluorohexanesulfonic acid	23.3	23.0		ng/L		98	58 - 134	2	30
Perfluorohexanoic acid	25.6	24.6		ng/L		96	58 - 139	2	30
Perfluorononanesulfonic acid	24.6	23.7		ng/L		96	59 - 136	2	30
Perfluorononanoic acid	25.6	26.9		ng/L		105	61 - 139	4	30
Perfluorooctanesulfonamide	25.6	26.6		ng/L		104	43 - 167	1	30
Perfluorooctanesulfonic acid	23.7	23.3		ng/L		98	45 - 150	4	30
Perfluorooctanoic acid	25.6	25.8		ng/L		101	51 - 145	2	30
Perfluoropentanesulfonic acid	24.0	26.3		ng/L		110	55 - 140	2	30
Perfluoropentanoic acid	25.6	25.0		ng/L		98	57 - 141	5	30
Perfluorotetradecanoic acid	25.6	27.5		ng/L		107	62 - 139	6	30
Perfluorotridecanoic acid	25.6	27.1		ng/L		106	58 - 146	1	30
Perfluoroundecanoic acid	25.6	25.5		ng/L		99	60 - 141	7	30
6:2 Fluorotelomer sulfonic acid	24.3	25.7		ng/L		106	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid	24.5	24.0		ng/L		98	55 - 138	1	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
M2-6:2 FTS	96		17 - 200
M2-8:2 FTS	99		33 - 200
13C2 PFTeDA	90		10 - 179
13C3 HFPO-DA	109		17 - 185
13C3 PFBS	85		16 - 200
13C4 PFBA	93		42 - 165
13C4 PFHpA	97		31 - 182
13C5 PFPeA	90		38 - 187
13C8 PFOA	94		48 - 162
13C8 PFOS	102		51 - 159
d3-NMeFOSAA	91		31 - 174
d5-NEtFOSAA	91		29 - 195
d9-N-EtFOSE-M	61		10 - 177
13C3 PFHxS	96		28 - 188
13C5 PFHxA	99		24 - 179
13C6 PFDA	86		49 - 163
13C7 PFUnA	90		34 - 174
d3-NMePFOSA	54		10 - 155
d5-NEtPFOSA	57		10 - 159
13C8 FOSA	83		10 - 168
13C2-PFDoDA	84		17 - 176
13C9 PFNA	100		51 - 167

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Lab Sample ID: MB 410-320869/1-A

Matrix: Water

Analysis Batch: 325744

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 320869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.50	U	3.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
NMeFOSAA	0.60	U	2.0	0.60	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorobutanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorobutanoic acid	2.0	U	5.0	2.0	ng/L		11/25/22 14:50	12/11/22 13:23	1
HFPODA	1.0	U	3.0	1.0	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorodecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorododecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
NEtFOSA	1.0	U	5.0	1.0	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluoroheptanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluoroheptanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorohexanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorohexanoic acid	0.90	U	2.0	0.90	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorononanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorononanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorooctanesulfonamide	0.70	U	2.0	0.70	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorooctanesulfonic acid	1.0	U	2.0	1.0	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorooctanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluoropentanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluoropentanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorotetradecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluorotridecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
Perfluoroundecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:50	12/11/22 13:23	1
6:2 Fluorotelomer sulfonic acid	4.2	U	5.0	4.2	ng/L		11/25/22 14:50	12/11/22 13:23	1
8:2 Fluorotelomer sulfonic acid	1.0	U	3.0	1.0	ng/L		11/25/22 14:50	12/11/22 13:23	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	79		17 - 200	11/25/22 14:50	12/11/22 13:23	1
M2-8:2 FTS	80		33 - 200	11/25/22 14:50	12/11/22 13:23	1
13C2 PFTeDA	81		10 - 179	11/25/22 14:50	12/11/22 13:23	1
13C3 HFPO-DA	71		17 - 185	11/25/22 14:50	12/11/22 13:23	1
13C3 PFBS	91		16 - 200	11/25/22 14:50	12/11/22 13:23	1
13C4 PFBA	86		42 - 165	11/25/22 14:50	12/11/22 13:23	1
13C4 PFHpA	92		31 - 182	11/25/22 14:50	12/11/22 13:23	1
13C5 PFPeA	79		38 - 187	11/25/22 14:50	12/11/22 13:23	1
13C8 PFOA	86		48 - 162	11/25/22 14:50	12/11/22 13:23	1
13C8 PFOS	94		51 - 159	11/25/22 14:50	12/11/22 13:23	1
d5-NEtFOSAA	76		29 - 195	11/25/22 14:50	12/11/22 13:23	1
d9-N-EtFOSE-M	64		10 - 177	11/25/22 14:50	12/11/22 13:23	1
13C3 PFHxS	97		28 - 188	11/25/22 14:50	12/11/22 13:23	1
13C5 PFHxA	84		24 - 179	11/25/22 14:50	12/11/22 13:23	1
13C6 PFDA	85		49 - 163	11/25/22 14:50	12/11/22 13:23	1
13C7 PFUnA	87		34 - 174	11/25/22 14:50	12/11/22 13:23	1
d5-NEtPFOSA	68		10 - 159	11/25/22 14:50	12/11/22 13:23	1
13C8 FOSA	70		10 - 168	11/25/22 14:50	12/11/22 13:23	1
13C2-PFDoDA	72		17 - 176	11/25/22 14:50	12/11/22 13:23	1
13C9 PFNA	82		51 - 167	11/25/22 14:50	12/11/22 13:23	1

QC Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Lab Sample ID: LCS 410-320869/2-A

Matrix: Water

Analysis Batch: 325744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 320869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSAA	25.6	23.0		ng/L		90	55 - 134
NMeFOSAA	25.6	27.1		ng/L		106	59 - 140
Perfluorobutanesulfonic acid	22.7	23.6		ng/L		104	53 - 138
Perfluorobutanoic acid	25.6	24.8		ng/L		97	59 - 136
HFPODA	25.6	22.9		ng/L		89	50 - 135
Perfluorodecanoic acid	25.6	25.9		ng/L		101	56 - 138
Perfluorododecanoic acid	25.6	24.3		ng/L		95	59 - 143
NEtFOSA	25.6	26.3		ng/L		103	61 - 134
Perfluoroheptanesulfonic acid	24.4	25.5		ng/L		105	56 - 140
Perfluoroheptanoic acid	25.6	25.9		ng/L		101	59 - 145
Perfluorohexanesulfonic acid	23.3	25.0		ng/L		107	58 - 134
Perfluorohexanoic acid	25.6	23.2		ng/L		90	58 - 139
Perfluorononanesulfonic acid	24.6	24.1		ng/L		98	59 - 136
Perfluorononanoic acid	25.6	26.7		ng/L		104	61 - 139
Perfluorooctanesulfonamide	25.6	26.7		ng/L		104	43 - 167
Perfluorooctanesulfonic acid	23.7	23.2		ng/L		98	45 - 150
Perfluorooctanoic acid	25.6	23.0		ng/L		90	51 - 145
Perfluoropentanesulfonic acid	24.0	23.4		ng/L		98	55 - 140
Perfluoropentanoic acid	25.6	24.8		ng/L		97	57 - 141
Perfluorotetradecanoic acid	25.6	26.9		ng/L		105	62 - 139
Perfluorotridecanoic acid	25.6	26.1		ng/L		102	58 - 146
Perfluoroundecanoic acid	25.6	24.7		ng/L		97	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	24.8		ng/L		102	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	25.4		ng/L		103	55 - 138

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	89		17 - 200
M2-8:2 FTS	85		33 - 200
13C2 PFTeDA	88		10 - 179
13C3 HFPO-DA	68		17 - 185
13C3 PFBS	102		16 - 200
13C4 PFBA	89		42 - 165
13C4 PFHpA	84		31 - 182
13C5 PFPeA	90		38 - 187
13C8 PFOA	92		48 - 162
13C8 PFOS	94		51 - 159
d3-NMeFOSAA	81		31 - 174
d5-NEtFOSAA	89		29 - 195
d9-N-EtFOSE-M	69		10 - 177
13C3 PFHxS	90		28 - 188
13C5 PFHxA	86		24 - 179
13C6 PFDA	86		49 - 163
13C7 PFUnA	89		34 - 174
d3-NMePFOSA	59		10 - 155
d5-NEtPFOSA	65		10 - 159
13C8 FOSA	74		10 - 168
13C2-PFDoDA	83		17 - 176
13C9 PFNA	83		51 - 167

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Lab Sample ID: LCSD 410-320869/3-A

Matrix: Water

Analysis Batch: 325744

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 320869

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA	25.6	24.2		ng/L		95	55 - 134	5	30
NMeFOSAA	25.6	27.3		ng/L		107	59 - 140	1	30
Perfluorobutanesulfonic acid	22.7	24.2		ng/L		107	53 - 138	3	30
Perfluorobutanoic acid	25.6	24.4		ng/L		96	59 - 136	1	30
HFPODA	25.6	25.8		ng/L		101	50 - 135	12	30
Perfluorodecanoic acid	25.6	25.2		ng/L		98	56 - 138	3	30
Perfluorododecanoic acid	25.6	26.1		ng/L		102	59 - 143	7	30
NEtFOSA	25.6	27.7		ng/L		108	61 - 134	5	30
Perfluoroheptanesulfonic acid	24.4	25.2		ng/L		104	56 - 140	1	30
Perfluoroheptanoic acid	25.6	28.5		ng/L		111	59 - 145	9	30
Perfluorohexanesulfonic acid	23.3	24.7		ng/L		106	58 - 134	1	30
Perfluorohexanoic acid	25.6	24.5		ng/L		96	58 - 139	6	30
Perfluorononanesulfonic acid	24.6	23.8		ng/L		97	59 - 136	1	30
Perfluorononanoic acid	25.6	27.4		ng/L		107	61 - 139	3	30
Perfluorooctanesulfonamide	25.6	27.7		ng/L		108	43 - 167	4	30
Perfluorooctanesulfonic acid	23.7	24.1		ng/L		102	45 - 150	4	30
Perfluorooctanoic acid	25.6	25.2		ng/L		98	51 - 145	9	30
Perfluoropentanesulfonic acid	24.0	23.8		ng/L		99	55 - 140	1	30
Perfluoropentanoic acid	25.6	26.2		ng/L		102	57 - 141	6	30
Perfluorotetradecanoic acid	25.6	26.7		ng/L		104	62 - 139	1	30
Perfluorotridecanoic acid	25.6	28.6		ng/L		112	58 - 146	9	30
Perfluoroundecanoic acid	25.6	26.4		ng/L		103	60 - 141	7	30
6:2 Fluorotelomer sulfonic acid	24.3	25.2		ng/L		104	28 - 173	1	30
8:2 Fluorotelomer sulfonic acid	24.5	24.3		ng/L		99	55 - 138	4	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	88		17 - 200
M2-8:2 FTS	96		33 - 200
13C2 PFTeDA	91		10 - 179
13C3 HFPO-DA	64		17 - 185
13C3 PFBS	90		16 - 200
13C4 PFBA	84		42 - 165
13C4 PFHpA	83		31 - 182
13C5 PFPeA	80		38 - 187
13C8 PFOA	86		48 - 162
13C8 PFOS	92		51 - 159
d3-NMeFOSAA	86		31 - 174
d5-NEtFOSAA	90		29 - 195
d9-N-EtFOSE-M	69		10 - 177
13C3 PFHxS	91		28 - 188
13C5 PFHxA	87		24 - 179
13C6 PFDA	85		49 - 163
13C7 PFUnA	88		34 - 174
d3-NMePFOSA	58		10 - 155
d5-NEtPFOSA	65		10 - 159
13C8 FOSA	72		10 - 168
13C2-PFDoDA	79		17 - 176
13C9 PFNA	81		51 - 167

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Lab Sample ID: MB 410-320870/1-A

Matrix: Water

Analysis Batch: 324534

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 320870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.50	U	3.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
NMeFOSAA	0.60	U	2.0	0.60	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorobutanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorobutanoic acid	2.0	U	5.0	2.0	ng/L		11/25/22 14:52	12/07/22 14:13	1
HFPODA	1.0	U	3.0	1.0	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorodecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorododecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
NEtFOSA	1.0	U	5.0	1.0	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluoroheptanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluoroheptanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorohexanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorohexanoic acid	0.90	U	2.0	0.90	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorononanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorononanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorooctanesulfonamide	0.70	U	2.0	0.70	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorooctanesulfonic acid	1.0	U	2.0	1.0	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorooctanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluoropentanesulfonic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluoropentanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorotetradecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluorotridecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
Perfluoroundecanoic acid	0.50	U	2.0	0.50	ng/L		11/25/22 14:52	12/07/22 14:13	1
6:2 Fluorotelomer sulfonic acid	4.2	U	5.0	4.2	ng/L		11/25/22 14:52	12/07/22 14:13	1
8:2 Fluorotelomer sulfonic acid	1.0	U	3.0	1.0	ng/L		11/25/22 14:52	12/07/22 14:13	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	110		17 - 200	11/25/22 14:52	12/07/22 14:13	1
M2-8:2 FTS	106		33 - 200	11/25/22 14:52	12/07/22 14:13	1
13C2 PFTeDA	90		10 - 179	11/25/22 14:52	12/07/22 14:13	1
13C3 HFPO-DA	85		17 - 185	11/25/22 14:52	12/07/22 14:13	1
13C3 PFBS	105		16 - 200	11/25/22 14:52	12/07/22 14:13	1
13C4 PFBA	108		42 - 165	11/25/22 14:52	12/07/22 14:13	1
13C4 PFHpA	119		31 - 182	11/25/22 14:52	12/07/22 14:13	1
13C5 PFPeA	122		38 - 187	11/25/22 14:52	12/07/22 14:13	1
13C8 PFOA	111		48 - 162	11/25/22 14:52	12/07/22 14:13	1
13C8 PFOS	113		51 - 159	11/25/22 14:52	12/07/22 14:13	1
d5-NEtFOSAA	114		29 - 195	11/25/22 14:52	12/07/22 14:13	1
d9-N-EtFOSE-M	85		10 - 177	11/25/22 14:52	12/07/22 14:13	1
13C3 PFHxS	113		28 - 188	11/25/22 14:52	12/07/22 14:13	1
13C5 PFHxA	113		24 - 179	11/25/22 14:52	12/07/22 14:13	1
13C6 PFDA	104		49 - 163	11/25/22 14:52	12/07/22 14:13	1
13C7 PFUnA	105		34 - 174	11/25/22 14:52	12/07/22 14:13	1
d5-NEtPFOSA	77		10 - 159	11/25/22 14:52	12/07/22 14:13	1
13C8 FOSA	82		10 - 168	11/25/22 14:52	12/07/22 14:13	1
13C2-PFDoDA	103		17 - 176	11/25/22 14:52	12/07/22 14:13	1
13C9 PFNA	115		51 - 167	11/25/22 14:52	12/07/22 14:13	1

QC Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Lab Sample ID: LCS 410-320870/2-A

Matrix: Water

Analysis Batch: 324534

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 320870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSAA	25.6	24.6		ng/L		96	55 - 134
NMeFOSAA	25.6	24.5		ng/L		96	59 - 140
Perfluorobutanesulfonic acid	22.7	24.0		ng/L		106	53 - 138
Perfluorobutanoic acid	25.6	24.2		ng/L		94	59 - 136
HFPODA	25.6	28.8		ng/L		112	50 - 135
Perfluorodecanoic acid	25.6	25.7		ng/L		100	56 - 138
Perfluorododecanoic acid	25.6	25.3		ng/L		99	59 - 143
NEtFOSA	25.6	28.4		ng/L		111	61 - 134
Perfluoroheptanesulfonic acid	24.4	21.9		ng/L		90	56 - 140
Perfluoroheptanoic acid	25.6	26.6		ng/L		104	59 - 145
Perfluorohexanesulfonic acid	23.3	22.8		ng/L		98	58 - 134
Perfluorohexanoic acid	25.6	25.8		ng/L		101	58 - 139
Perfluorononanesulfonic acid	24.6	22.4		ng/L		91	59 - 136
Perfluorononanoic acid	25.6	25.4		ng/L		99	61 - 139
Perfluorooctanesulfonamide	25.6	26.3		ng/L		103	43 - 167
Perfluorooctanesulfonic acid	23.7	24.5		ng/L		103	45 - 150
Perfluorooctanoic acid	25.6	24.8		ng/L		97	51 - 145
Perfluoropentanesulfonic acid	24.0	24.9		ng/L		104	55 - 140
Perfluoropentanoic acid	25.6	25.2		ng/L		98	57 - 141
Perfluorotetradecanoic acid	25.6	26.0		ng/L		101	62 - 139
Perfluorotridecanoic acid	25.6	21.0		ng/L		82	58 - 146
Perfluoroundecanoic acid	25.6	23.1		ng/L		90	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	24.7		ng/L		102	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	24.5		ng/L		100	55 - 138

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	111		17 - 200
M2-8:2 FTS	109		33 - 200
13C2 PFTeDA	94		10 - 179
13C3 HFPO-DA	73		17 - 185
13C3 PFBS	107		16 - 200
13C4 PFBA	108		42 - 165
13C4 PFHpA	110		31 - 182
13C5 PFPeA	114		38 - 187
13C8 PFOA	111		48 - 162
13C8 PFOS	112		51 - 159
d3-NMeFOSAA	114		31 - 174
d5-NEtFOSAA	115		29 - 195
d9-N-EtFOSE-M	83		10 - 177
13C3 PFHxS	110		28 - 188
13C5 PFHxA	112		24 - 179
13C6 PFDA	111		49 - 163
13C7 PFUnA	109		34 - 174
d3-NMePFOSA	71		10 - 155
d5-NEtPFOSA	72		10 - 159
13C8 FOSA	83		10 - 168
13C2-PFDoDA	115		17 - 176
13C9 PFNA	110		51 - 167

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method: T-WI14355 r13 - SOP T-PFAS-WI14355 Rev.13 (Continued)

Lab Sample ID: LCSD 410-320870/3-A

Matrix: Water

Analysis Batch: 324534

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 320870

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA	25.6	25.1		ng/L		98	55 - 134	2	30
NMeFOSAA	25.6	26.0		ng/L		102	59 - 140	6	30
Perfluorobutanesulfonic acid	22.7	23.9		ng/L		106	53 - 138	0	30
Perfluorobutanoic acid	25.6	23.7		ng/L		93	59 - 136	2	30
HFPODA	25.6	29.6		ng/L		116	50 - 135	3	30
Perfluorodecanoic acid	25.6	28.2		ng/L		110	56 - 138	9	30
Perfluorododecanoic acid	25.6	25.5		ng/L		100	59 - 143	1	30
NEtFOSA	25.6	27.6		ng/L		108	61 - 134	3	30
Perfluoroheptanesulfonic acid	24.4	20.9		ng/L		86	56 - 140	5	30
Perfluoroheptanoic acid	25.6	24.9		ng/L		97	59 - 145	7	30
Perfluorohexanesulfonic acid	23.3	21.2		ng/L		91	58 - 134	7	30
Perfluorohexanoic acid	25.6	26.7		ng/L		104	58 - 139	3	30
Perfluorononanesulfonic acid	24.6	21.8		ng/L		89	59 - 136	2	30
Perfluorononanoic acid	25.6	25.4		ng/L		99	61 - 139	0	30
Perfluorooctanesulfonamide	25.6	26.1		ng/L		102	43 - 167	1	30
Perfluorooctanesulfonic acid	23.7	22.3		ng/L		94	45 - 150	9	30
Perfluorooctanoic acid	25.6	25.5		ng/L		100	51 - 145	3	30
Perfluoropentanesulfonic acid	24.0	25.3		ng/L		105	55 - 140	2	30
Perfluoropentanoic acid	25.6	22.8		ng/L		89	57 - 141	10	30
Perfluorotetradecanoic acid	25.6	28.3		ng/L		111	62 - 139	9	30
Perfluorotridecanoic acid	25.6	24.0		ng/L		94	58 - 146	14	30
Perfluoroundecanoic acid	25.6	23.8		ng/L		93	60 - 141	3	30
6:2 Fluorotelomer sulfonic acid	24.3	23.8		ng/L		98	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid	24.5	23.5		ng/L		96	55 - 138	4	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-6:2 FTS	114		17 - 200
M2-8:2 FTS	118		33 - 200
13C2 PFTeDA	102		10 - 179
13C3 HFPO-DA	80		17 - 185
13C3 PFBS	111		16 - 200
13C4 PFBA	115		42 - 165
13C4 PFHpA	118		31 - 182
13C5 PFPeA	131		38 - 187
13C8 PFOA	113		48 - 162
13C8 PFOS	117		51 - 159
d3-NMeFOSAA	115		31 - 174
d5-NEtFOSAA	113		29 - 195
d9-N-EtFOSE-M	92		10 - 177
13C3 PFHxS	116		28 - 188
13C5 PFHxA	112		24 - 179
13C6 PFDA	112		49 - 163
13C7 PFUnA	115		34 - 174
d3-NMePFOSA	74		10 - 155
d5-NEtPFOSA	80		10 - 159
13C8 FOSA	89		10 - 168
13C2-PFDoDA	116		17 - 176
13C9 PFNA	115		51 - 167

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

LCMS

Prep Batch: 320738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-2	RP-EB	Total/NA	Water	T-WI14355 r13	
410-105783-2 - RE	RP-EB	Total/NA	Water	T-WI14355 r13	
MB 410-320738/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	
LCS 410-320738/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	
LCSD 410-320738/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	

Prep Batch: 320869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-3 - DL	RP-1 1740	Total/NA	Water	T-WI14355 r13	
410-105783-3 - RA	RP-1 1740	Total/NA	Water	T-WI14355 r13	
410-105783-3	RP-1 1740	Total/NA	Water	T-WI14355 r13	
410-105783-4	RP-2 1800	Total/NA	Water	T-WI14355 r13	
410-105783-4 - DL	RP-2 1800	Total/NA	Water	T-WI14355 r13	
410-105783-5 - DL	RP-3 1815	Total/NA	Water	T-WI14355 r13	
410-105783-5	RP-3 1815	Total/NA	Water	T-WI14355 r13	
410-105783-6	RP-4 1835	Total/NA	Water	T-WI14355 r13	
410-105783-7	RP-1 2020	Total/NA	Water	T-WI14355 r13	
410-105783-7 - RA	RP-1 2020	Total/NA	Water	T-WI14355 r13	
410-105783-8	RP-2 2025	Total/NA	Water	T-WI14355 r13	
410-105783-9	RP-3 2035	Total/NA	Water	T-WI14355 r13	
410-105783-9 - RA	RP-3 2035	Total/NA	Water	T-WI14355 r13	
410-105783-10	RP-4 2045	Total/NA	Water	T-WI14355 r13	
410-105783-10 - RA	RP-4 2045	Total/NA	Water	T-WI14355 r13	
410-105783-11	EB-DS	Total/NA	Water	T-WI14355 r13	
410-105783-12	SW-MERR-202W 1905	Total/NA	Water	T-WI14355 r13	
410-105783-13	SW-MERR-202W 1945	Total/NA	Water	T-WI14355 r13	
410-105783-14	EB-RD	Total/NA	Water	T-WI14355 r13	
410-105783-16	RD-MB-SW 1740	Total/NA	Water	T-WI14355 r13	
410-105783-17	RD-MB-SW 1945	Total/NA	Water	T-WI14355 r13	
410-105783-18	RD-MB-NW 1740	Total/NA	Water	T-WI14355 r13	
410-105783-19	RD-MB-NW 1945	Total/NA	Water	T-WI14355 r13	
410-105783-20	RD-NMB 1740	Total/NA	Water	T-WI14355 r13	
410-105783-20 - DL	RD-NMB 1740	Total/NA	Water	T-WI14355 r13	
410-105783-21	RD-NMB 1945	Total/NA	Water	T-WI14355 r13	
MB 410-320869/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	
LCS 410-320869/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	
LCSD 410-320869/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	

Prep Batch: 320870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-22 - DL	RD-MB-NE 1740	Total/NA	Water	T-WI14355 r13	
410-105783-22	RD-MB-NE 1740	Total/NA	Water	T-WI14355 r13	
410-105783-22 - DL2	RD-MB-NE 1740	Total/NA	Water	T-WI14355 r13	
410-105783-23 - DL	RD-MB-NE 1945	Total/NA	Water	T-WI14355 r13	
410-105783-23	RD-MB-NE 1945	Total/NA	Water	T-WI14355 r13	
410-105783-24	TB-1	Total/NA	Water	T-WI14355 r13	
410-105783-25	EB-OUTFALL	Total/NA	Water	T-WI14355 r13	
410-105783-26 - DL	OUTFALL 001 1905	Total/NA	Water	T-WI14355 r13	
410-105783-26	OUTFALL 001 1905	Total/NA	Water	T-WI14355 r13	
410-105783-27	OUTFALL 001 1945	Total/NA	Water	T-WI14355 r13	
410-105783-27 - DL	OUTFALL 001 1945	Total/NA	Water	T-WI14355 r13	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

LCMS (Continued)

Prep Batch: 320870 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-28	OUTFALL 001 2025	Total/NA	Water	T-WI14355 r13	
410-105783-29	OUTFALL 001 2055	Total/NA	Water	T-WI14355 r13	
410-105783-31	EB-US	Total/NA	Water	T-WI14355 r13	
410-105783-32	SW-MERR-101W 1905	Total/NA	Water	T-WI14355 r13	
410-105783-33	SW-MERR-101W 1945	Total/NA	Water	T-WI14355 r13	
410-105783-34	FB-DS	Total/NA	Water	T-WI14355 r13	
410-105783-35	RD-MB-SE 1750	Total/NA	Water	T-WI14355 r13	
410-105783-36	RD-MB-SE 1945	Total/NA	Water	T-WI14355 r13	
MB 410-320870/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	
LCS 410-320870/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	
LCSD 410-320870/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	

Analysis Batch: 323455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-2 - RE	RP-EB	Total/NA	Water	T-WI14355 r13	320738
MB 410-320738/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	320738
LCS 410-320738/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	320738
LCSD 410-320738/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	320738

Analysis Batch: 324534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-22	RD-MB-NE 1740	Total/NA	Water	T-WI14355 r13	320870
410-105783-23	RD-MB-NE 1945	Total/NA	Water	T-WI14355 r13	320870
410-105783-24	TB-1	Total/NA	Water	T-WI14355 r13	320870
410-105783-25	EB-OUTFALL	Total/NA	Water	T-WI14355 r13	320870
410-105783-26	OUTFALL 001 1905	Total/NA	Water	T-WI14355 r13	320870
410-105783-28	OUTFALL 001 2025	Total/NA	Water	T-WI14355 r13	320870
410-105783-29	OUTFALL 001 2055	Total/NA	Water	T-WI14355 r13	320870
410-105783-31	EB-US	Total/NA	Water	T-WI14355 r13	320870
410-105783-34	FB-DS	Total/NA	Water	T-WI14355 r13	320870
410-105783-36	RD-MB-SE 1945	Total/NA	Water	T-WI14355 r13	320870
MB 410-320870/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	320870
LCS 410-320870/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	320870
LCSD 410-320870/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	320870

Analysis Batch: 324732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-2	RP-EB	Total/NA	Water	T-WI14355 r13	320738

Analysis Batch: 325121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-22 - DL	RD-MB-NE 1740	Total/NA	Water	T-WI14355 r13	320870
410-105783-22 - DL2	RD-MB-NE 1740	Total/NA	Water	T-WI14355 r13	320870
410-105783-23 - DL	RD-MB-NE 1945	Total/NA	Water	T-WI14355 r13	320870
410-105783-26 - DL	OUTFALL 001 1905	Total/NA	Water	T-WI14355 r13	320870
410-105783-27	OUTFALL 001 1945	Total/NA	Water	T-WI14355 r13	320870
410-105783-27 - DL	OUTFALL 001 1945	Total/NA	Water	T-WI14355 r13	320870
410-105783-32	SW-MERR-101W 1905	Total/NA	Water	T-WI14355 r13	320870
410-105783-33	SW-MERR-101W 1945	Total/NA	Water	T-WI14355 r13	320870
410-105783-35	RD-MB-SE 1750	Total/NA	Water	T-WI14355 r13	320870

QC Association Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

LCMS

Analysis Batch: 325744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-3	RP-1 1740	Total/NA	Water	T-WI14355 r13	320869
410-105783-4	RP-2 1800	Total/NA	Water	T-WI14355 r13	320869
410-105783-7	RP-1 2020	Total/NA	Water	T-WI14355 r13	320869
410-105783-8	RP-2 2025	Total/NA	Water	T-WI14355 r13	320869
410-105783-9	RP-3 2035	Total/NA	Water	T-WI14355 r13	320869
410-105783-10	RP-4 2045	Total/NA	Water	T-WI14355 r13	320869
410-105783-11	EB-DS	Total/NA	Water	T-WI14355 r13	320869
410-105783-14	EB-RD	Total/NA	Water	T-WI14355 r13	320869
410-105783-16	RD-MB-SW 1740	Total/NA	Water	T-WI14355 r13	320869
410-105783-17	RD-MB-SW 1945	Total/NA	Water	T-WI14355 r13	320869
410-105783-18	RD-MB-NW 1740	Total/NA	Water	T-WI14355 r13	320869
410-105783-19	RD-MB-NW 1945	Total/NA	Water	T-WI14355 r13	320869
410-105783-20	RD-NMB 1740	Total/NA	Water	T-WI14355 r13	320869
410-105783-21	RD-NMB 1945	Total/NA	Water	T-WI14355 r13	320869
MB 410-320869/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	320869
LCS 410-320869/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	320869
LCSD 410-320869/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	320869

Prep Batch: 326845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-22 - RE	RD-MB-NE 1740	Total/NA	Water	T-WI14355 r13	
410-105783-23 - RE	RD-MB-NE 1945	Total/NA	Water	T-WI14355 r13	
410-105783-26 - RE	OUTFALL 001 1905	Total/NA	Water	T-WI14355 r13	
410-105783-27 - RE	OUTFALL 001 1945	Total/NA	Water	T-WI14355 r13	
410-105783-28 - RE	OUTFALL 001 2025	Total/NA	Water	T-WI14355 r13	
410-105783-29 - RE	OUTFALL 001 2055	Total/NA	Water	T-WI14355 r13	
410-105783-32 - RE	SW-MERR-101W 1905	Total/NA	Water	T-WI14355 r13	
410-105783-33 - RE	SW-MERR-101W 1945	Total/NA	Water	T-WI14355 r13	
410-105783-35 - RE	RD-MB-SE 1750	Total/NA	Water	T-WI14355 r13	
MB 410-326845/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	
LCS 410-326845/3-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	
LCSD 410-326845/4-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	

Analysis Batch: 327097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-3 - RA	RP-1 1740	Total/NA	Water	T-WI14355 r13	320869
410-105783-3 - DL	RP-1 1740	Total/NA	Water	T-WI14355 r13	320869
410-105783-4 - DL	RP-2 1800	Total/NA	Water	T-WI14355 r13	320869
410-105783-5	RP-3 1815	Total/NA	Water	T-WI14355 r13	320869
410-105783-5 - DL	RP-3 1815	Total/NA	Water	T-WI14355 r13	320869
410-105783-6	RP-4 1835	Total/NA	Water	T-WI14355 r13	320869
410-105783-7 - RA	RP-1 2020	Total/NA	Water	T-WI14355 r13	320869
410-105783-9 - RA	RP-3 2035	Total/NA	Water	T-WI14355 r13	320869
410-105783-10 - RA	RP-4 2045	Total/NA	Water	T-WI14355 r13	320869
410-105783-12	SW-MERR-202W 1905	Total/NA	Water	T-WI14355 r13	320869
410-105783-13	SW-MERR-202W 1945	Total/NA	Water	T-WI14355 r13	320869
410-105783-20 - DL	RD-NMB 1740	Total/NA	Water	T-WI14355 r13	320869

Analysis Batch: 327680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-22 - RE	RD-MB-NE 1740	Total/NA	Water	T-WI14355 r13	326845

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

LCMS (Continued)

Analysis Batch: 327680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-23 - RE	RD-MB-NE 1945	Total/NA	Water	T-WI14355 r13	326845
410-105783-26 - RE	OUTFALL 001 1905	Total/NA	Water	T-WI14355 r13	326845
410-105783-27 - RE	OUTFALL 001 1945	Total/NA	Water	T-WI14355 r13	326845
410-105783-28 - RE	OUTFALL 001 2025	Total/NA	Water	T-WI14355 r13	326845
410-105783-29 - RE	OUTFALL 001 2055	Total/NA	Water	T-WI14355 r13	326845
410-105783-32 - RE	SW-MERR-101W 1905	Total/NA	Water	T-WI14355 r13	326845
410-105783-33 - RE	SW-MERR-101W 1945	Total/NA	Water	T-WI14355 r13	326845
410-105783-35 - RE	RD-MB-SE 1750	Total/NA	Water	T-WI14355 r13	326845
MB 410-326845/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	326845
LCS 410-326845/3-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	326845
LCSD 410-326845/4-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	326845

Prep Batch: 331871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-6 - RE	RP-4 1835	Total/NA	Water	T-WI14355 r13	
410-105783-14 - RE	EB-RD	Total/NA	Water	T-WI14355 r13	
MB 410-331871/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	
LCS 410-331871/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	
LCSD 410-331871/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	

Analysis Batch: 332116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-6 - RE	RP-4 1835	Total/NA	Water	T-WI14355 r13	331871
410-105783-14 - RE	EB-RD	Total/NA	Water	T-WI14355 r13	331871
MB 410-331871/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	331871
LCS 410-331871/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	331871
LCSD 410-331871/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	331871

Prep Batch: 332570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-4 - RE	RP-2 1800	Total/NA	Water	T-WI14355 r13	
410-105783-7 - RE	RP-1 2020	Total/NA	Water	T-WI14355 r13	
410-105783-8 - RE	RP-2 2025	Total/NA	Water	T-WI14355 r13	
410-105783-13 - RE	SW-MERR-202W 1945	Total/NA	Water	T-WI14355 r13	
410-105783-17 - RE	RD-MB-SW 1945	Total/NA	Water	T-WI14355 r13	
410-105783-18 - RE	RD-MB-NW 1740	Total/NA	Water	T-WI14355 r13	
410-105783-19 - RE	RD-MB-NW 1945	Total/NA	Water	T-WI14355 r13	
410-105783-20 - RE	RD-NMB 1740	Total/NA	Water	T-WI14355 r13	
410-105783-21 - RE	RD-NMB 1945	Total/NA	Water	T-WI14355 r13	
MB 410-332570/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	
LCS 410-332570/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	
LCSD 410-332570/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	

Analysis Batch: 332827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-4 - RE	RP-2 1800	Total/NA	Water	T-WI14355 r13	332570
410-105783-7 - RE	RP-1 2020	Total/NA	Water	T-WI14355 r13	332570
410-105783-8 - RE	RP-2 2025	Total/NA	Water	T-WI14355 r13	332570
410-105783-13 - RE	SW-MERR-202W 1945	Total/NA	Water	T-WI14355 r13	332570
410-105783-17 - RE	RD-MB-SW 1945	Total/NA	Water	T-WI14355 r13	332570
410-105783-18 - RE	RD-MB-NW 1740	Total/NA	Water	T-WI14355 r13	332570

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

LCMS (Continued)

Analysis Batch: 332827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105783-19 - RE	RD-MB-NW 1945	Total/NA	Water	T-WI14355 r13	332570
410-105783-20 - RE	RD-NMB 1740	Total/NA	Water	T-WI14355 r13	332570
410-105783-21 - RE	RD-NMB 1945	Total/NA	Water	T-WI14355 r13	332570
MB 410-332570/1-A	Method Blank	Total/NA	Water	T-WI14355 r13	332570
LCS 410-332570/2-A	Lab Control Sample	Total/NA	Water	T-WI14355 r13	332570
LCSD 410-332570/3-A	Lab Control Sample Dup	Total/NA	Water	T-WI14355 r13	332570

Lab Chronicle

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-EB

Date Collected: 11/11/22 17:00

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13	RE		320738	JU9U	ELLE	11/23/22 15:21
Total/NA	Analysis	T-WI14355 r13	RE	1	323455	PY4D	ELLE	12/04/22 20:56
Total/NA	Prep	T-WI14355 r13			320738	JU9U	ELLE	11/23/22 15:21
Total/NA	Analysis	T-WI14355 r13		1	324732	I5JH	ELLE	12/08/22 02:02

Client Sample ID: RP-1 1740

Date Collected: 11/11/22 17:40

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 14:07
Total/NA	Prep	T-WI14355 r13	RA		320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13	RA	1	327097	QD9Y	ELLE	12/14/22 20:39
Total/NA	Prep	T-WI14355 r13	DL		320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13	DL	10	327097	QD9Y	ELLE	12/14/22 20:50

Client Sample ID: RP-2 1800

Date Collected: 11/11/22 18:00

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 14:19
Total/NA	Prep	T-WI14355 r13	DL		320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13	DL	10	327097	QD9Y	ELLE	12/14/22 21:12
Total/NA	Prep	T-WI14355 r13	RE		332570	QLP7	ELLE	01/04/23 15:46
Total/NA	Analysis	T-WI14355 r13	RE	1	332827	QD9Y	ELLE	01/05/23 18:55

Client Sample ID: RP-3 1815

Date Collected: 11/11/22 18:15

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		10	327097	QD9Y	ELLE	12/14/22 21:24
Total/NA	Prep	T-WI14355 r13	DL		320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13	DL	100	327097	QD9Y	ELLE	12/14/22 21:35

Client Sample ID: RP-4 1835

Date Collected: 11/11/22 18:35

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	327097	QD9Y	ELLE	12/14/22 21:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RP-4 1835

Date Collected: 11/11/22 18:35

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13	RE		331871	D5VP	ELLE	01/02/23 11:27
Total/NA	Analysis	T-WI14355 r13	RE	1	332116	QD9Y	ELLE	01/04/23 12:22

Client Sample ID: RP-1 2020

Date Collected: 11/11/22 20:20

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 15:03
Total/NA	Prep	T-WI14355 r13	RA		320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13	RA	1	327097	QD9Y	ELLE	12/14/22 22:08
Total/NA	Prep	T-WI14355 r13	RE		332570	QLP7	ELLE	01/04/23 15:46
Total/NA	Analysis	T-WI14355 r13	RE	1	332827	QD9Y	ELLE	01/05/23 19:06

Client Sample ID: RP-2 2025

Date Collected: 11/11/22 20:25

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 15:14
Total/NA	Prep	T-WI14355 r13	RE		332570	QLP7	ELLE	01/04/23 15:46
Total/NA	Analysis	T-WI14355 r13	RE	1	332827	QD9Y	ELLE	01/05/23 19:17

Client Sample ID: RP-3 2035

Date Collected: 11/11/22 20:35

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 15:25
Total/NA	Prep	T-WI14355 r13	RA		320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13	RA	1	327097	QD9Y	ELLE	12/14/22 22:30

Client Sample ID: RP-4 2045

Date Collected: 11/11/22 20:45

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 15:36
Total/NA	Prep	T-WI14355 r13	RA		320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13	RA	1	327097	QD9Y	ELLE	12/14/22 22:41

Lab Chronicle

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: EB-DS

Date Collected: 11/11/22 16:15

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 15:47

Client Sample ID: SW-MERR-202W 1905

Date Collected: 11/11/22 19:05

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	327097	QD9Y	ELLE	12/14/22 22:52

Client Sample ID: SW-MERR-202W 1945

Date Collected: 11/11/22 19:45

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	327097	QD9Y	ELLE	12/14/22 23:03
Total/NA	Prep	T-WI14355 r13	RE		332570	QLP7	ELLE	01/04/23 15:46
Total/NA	Analysis	T-WI14355 r13	RE	1	332827	QD9Y	ELLE	01/05/23 19:28

Client Sample ID: EB-RD

Date Collected: 11/11/22 16:23

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 16:20
Total/NA	Prep	T-WI14355 r13	RE		331871	D5VP	ELLE	01/02/23 11:27
Total/NA	Analysis	T-WI14355 r13	RE	1	332116	QD9Y	ELLE	01/04/23 12:33

Client Sample ID: RD-MB-SW 1740

Date Collected: 11/11/22 17:40

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 16:54

Client Sample ID: RD-MB-SW 1945

Date Collected: 11/11/22 19:45

Date Received: 11/15/22 10:08

Lab Sample ID: 410-105783-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 17:05

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-SW 1945

Lab Sample ID: 410-105783-17

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13	RE		332570	QLP7	ELLE	01/04/23 15:46
Total/NA	Analysis	T-WI14355 r13	RE	1	332827	QD9Y	ELLE	01/05/23 19:39

Client Sample ID: RD-MB-NW 1740

Lab Sample ID: 410-105783-18

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 17:16
Total/NA	Prep	T-WI14355 r13	RE		332570	QLP7	ELLE	01/04/23 15:46
Total/NA	Analysis	T-WI14355 r13	RE	1	332827	QD9Y	ELLE	01/05/23 19:50

Client Sample ID: RD-MB-NW 1945

Lab Sample ID: 410-105783-19

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 17:27
Total/NA	Prep	T-WI14355 r13	RE		332570	QLP7	ELLE	01/04/23 15:46
Total/NA	Analysis	T-WI14355 r13	RE	1	332827	QD9Y	ELLE	01/05/23 20:01

Client Sample ID: RD-NMB 1740

Lab Sample ID: 410-105783-20

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 17:38
Total/NA	Prep	T-WI14355 r13	DL		320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13	DL	10	327097	QD9Y	ELLE	12/14/22 23:14
Total/NA	Prep	T-WI14355 r13	RE		332570	QLP7	ELLE	01/04/23 15:46
Total/NA	Analysis	T-WI14355 r13	RE	1	332827	QD9Y	ELLE	01/05/23 20:12

Client Sample ID: RD-NMB 1945

Lab Sample ID: 410-105783-21

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320869	JU9U	ELLE	11/25/22 14:50
Total/NA	Analysis	T-WI14355 r13		1	325744	MT26	ELLE	12/11/22 17:49
Total/NA	Prep	T-WI14355 r13	RE		332570	QLP7	ELLE	01/04/23 15:46
Total/NA	Analysis	T-WI14355 r13	RE	1	332827	QD9Y	ELLE	01/05/23 20:23

Lab Chronicle

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: RD-MB-NE 1740

Lab Sample ID: 410-105783-22

Date Collected: 11/11/22 17:40

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 14:47
Total/NA	Prep	T-WI14355 r13	DL		320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13	DL	10	325121	UUV6	ELLE	12/08/22 16:36
Total/NA	Prep	T-WI14355 r13	DL2		320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13	DL2	100	325121	UUV6	ELLE	12/08/22 16:47
Total/NA	Prep	T-WI14355 r13	RE		326845	M4QQ	ELLE	12/14/22 07:33
Total/NA	Analysis	T-WI14355 r13	RE	1	327680	JVK6	ELLE	12/16/22 12:00

Client Sample ID: RD-MB-NE 1945

Lab Sample ID: 410-105783-23

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 14:58
Total/NA	Prep	T-WI14355 r13	DL		320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13	DL	10	325121	UUV6	ELLE	12/08/22 16:58
Total/NA	Prep	T-WI14355 r13	RE		326845	M4QQ	ELLE	12/14/22 07:33
Total/NA	Analysis	T-WI14355 r13	RE	1	327680	JVK6	ELLE	12/16/22 12:11

Client Sample ID: TB-1

Lab Sample ID: 410-105783-24

Date Collected: 11/11/22 00:00

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 15:09

Client Sample ID: EB-OUTFALL

Lab Sample ID: 410-105783-25

Date Collected: 11/11/22 17:20

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 15:20

Client Sample ID: OUTFALL 001 1905

Lab Sample ID: 410-105783-26

Date Collected: 11/11/22 19:05

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 15:31
Total/NA	Prep	T-WI14355 r13	DL		320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13	DL	10	325121	UUV6	ELLE	12/08/22 17:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: OUTFALL 001 1905

Lab Sample ID: 410-105783-26

Date Collected: 11/11/22 19:05

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13	RE		326845	M4QQ	ELLE	12/14/22 07:33
Total/NA	Analysis	T-WI14355 r13	RE	1	327680	JVK6	ELLE	12/16/22 12:22

Client Sample ID: OUTFALL 001 1945

Lab Sample ID: 410-105783-27

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	325121	UUV6	ELLE	12/08/22 17:31
Total/NA	Prep	T-WI14355 r13	DL		320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13	DL	10	325121	UUV6	ELLE	12/08/22 17:42
Total/NA	Prep	T-WI14355 r13	RE		326845	M4QQ	ELLE	12/14/22 07:33
Total/NA	Analysis	T-WI14355 r13	RE	1	327680	JVK6	ELLE	12/16/22 12:34

Client Sample ID: OUTFALL 001 2025

Lab Sample ID: 410-105783-28

Date Collected: 11/11/22 20:25

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 15:53
Total/NA	Prep	T-WI14355 r13	RE		326845	M4QQ	ELLE	12/14/22 07:33
Total/NA	Analysis	T-WI14355 r13	RE	1	327680	JVK6	ELLE	12/16/22 12:45

Client Sample ID: OUTFALL 001 2055

Lab Sample ID: 410-105783-29

Date Collected: 11/11/22 20:55

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 16:04
Total/NA	Prep	T-WI14355 r13	RE		326845	M4QQ	ELLE	12/14/22 07:33
Total/NA	Analysis	T-WI14355 r13	RE	1	327680	JVK6	ELLE	12/16/22 12:56

Client Sample ID: EB-US

Lab Sample ID: 410-105783-31

Date Collected: 11/11/22 16:30

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 16:27

Lab Chronicle

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Client Sample ID: SW-MERR-101W 1905

Lab Sample ID: 410-105783-32

Date Collected: 11/11/22 19:05

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	325121	UUV6	ELLE	12/08/22 17:54
Total/NA	Prep	T-WI14355 r13	RE		326845	M4QQ	ELLE	12/14/22 07:33
Total/NA	Analysis	T-WI14355 r13	RE	1	327680	JVK6	ELLE	12/16/22 13:07

Client Sample ID: SW-MERR-101W 1945

Lab Sample ID: 410-105783-33

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	325121	UUV6	ELLE	12/08/22 18:05
Total/NA	Prep	T-WI14355 r13	RE		326845	M4QQ	ELLE	12/14/22 07:33
Total/NA	Analysis	T-WI14355 r13	RE	1	327680	JVK6	ELLE	12/16/22 13:18

Client Sample ID: FB-DS

Lab Sample ID: 410-105783-34

Date Collected: 11/11/22 16:05

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 17:11

Client Sample ID: RD-MB-SE 1750

Lab Sample ID: 410-105783-35

Date Collected: 11/11/22 17:50

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	325121	UUV6	ELLE	12/08/22 18:27
Total/NA	Prep	T-WI14355 r13	RE		326845	M4QQ	ELLE	12/14/22 07:33
Total/NA	Analysis	T-WI14355 r13	RE	1	327680	JVK6	ELLE	12/16/22 13:29

Client Sample ID: RD-MB-SE 1945

Lab Sample ID: 410-105783-36

Date Collected: 11/11/22 19:45

Matrix: Water

Date Received: 11/15/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	T-WI14355 r13			320870	JU9U	ELLE	11/25/22 14:52
Total/NA	Analysis	T-WI14355 r13		1	324534	MT26	ELLE	12/07/22 17:33

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2730	01-10-23

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

Method Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Method	Method Description	Protocol	Laboratory
T-WI14355 r13	SOP T-PFAS-WI14355 Rev.13	ELLE - Lancaster	ELLE
T-WI14355 r13	SOP(00037) T-PFAS-WI14355 Rev. 13	ELLE - Lancaster	ELLE

Protocol References:

ELLE - Lancaster = Eurofins Lancaster, Facility Standard Operating Procedure.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Golder Associates Inc
Project/Site: SGPP Rainwater

Job ID: 410-105783-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-105783-2	RP-EB	Water	11/11/22 17:00	11/15/22 10:08
410-105783-3	RP-1 1740	Water	11/11/22 17:40	11/15/22 10:08
410-105783-4	RP-2 1800	Water	11/11/22 18:00	11/15/22 10:08
410-105783-5	RP-3 1815	Water	11/11/22 18:15	11/15/22 10:08
410-105783-6	RP-4 1835	Water	11/11/22 18:35	11/15/22 10:08
410-105783-7	RP-1 2020	Water	11/11/22 20:20	11/15/22 10:08
410-105783-8	RP-2 2025	Water	11/11/22 20:25	11/15/22 10:08
410-105783-9	RP-3 2035	Water	11/11/22 20:35	11/15/22 10:08
410-105783-10	RP-4 2045	Water	11/11/22 20:45	11/15/22 10:08
410-105783-11	EB-DS	Water	11/11/22 16:15	11/15/22 10:08
410-105783-12	SW-MERR-202W 1905	Water	11/11/22 19:05	11/15/22 10:08
410-105783-13	SW-MERR-202W 1945	Water	11/11/22 19:45	11/15/22 10:08
410-105783-14	EB-RD	Water	11/11/22 16:23	11/15/22 10:08
410-105783-16	RD-MB-SW 1740	Water	11/11/22 17:40	11/15/22 10:08
410-105783-17	RD-MB-SW 1945	Water	11/11/22 19:45	11/15/22 10:08
410-105783-18	RD-MB-NW 1740	Water	11/11/22 17:40	11/15/22 10:08
410-105783-19	RD-MB-NW 1945	Water	11/11/22 19:45	11/15/22 10:08
410-105783-20	RD-NMB 1740	Water	11/11/22 17:40	11/15/22 10:08
410-105783-21	RD-NMB 1945	Water	11/11/22 19:45	11/15/22 10:08
410-105783-22	RD-MB-NE 1740	Water	11/11/22 17:40	11/15/22 10:08
410-105783-23	RD-MB-NE 1945	Water	11/11/22 19:45	11/15/22 10:08
410-105783-24	TB-1	Water	11/11/22 00:00	11/15/22 10:08
410-105783-25	EB-OUTFALL	Water	11/11/22 17:20	11/15/22 10:08
410-105783-26	OUTFALL 001 1905	Water	11/11/22 19:05	11/15/22 10:08
410-105783-27	OUTFALL 001 1945	Water	11/11/22 19:45	11/15/22 10:08
410-105783-28	OUTFALL 001 2025	Water	11/11/22 20:25	11/15/22 10:08
410-105783-29	OUTFALL 001 2055	Water	11/11/22 20:55	11/15/22 10:08
410-105783-31	EB-US	Water	11/11/22 16:30	11/15/22 10:08
410-105783-32	SW-MERR-101W 1905	Water	11/11/22 19:05	11/15/22 10:08
410-105783-33	SW-MERR-101W 1945	Water	11/11/22 19:45	11/15/22 10:08
410-105783-34	FB-DS	Water	11/11/22 16:05	11/15/22 10:08
410-105783-35	RD-MB-SE 1750	Water	11/11/22 17:50	11/15/22 10:08
410-105783-36	RD-MB-SE 1945	Water	11/11/22 19:45	11/15/22 10:08

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Chain of Custody Record

eurofins

Environment Testing
America

Client Contact: Brendan Lennon		Lab PM: Hobart, Paul		Carrier Tracking No(s):		COC No: 410-59749-17072 1																	
Company: Golder Associates Inc.		E-Mail: Paul.Hobart@et.eurofinsus.com		State of Origin:		Page: Page 1 of 4																	
Address: 10 Al Paul Lane Suite 103		Due Date Requested: STAT		Analysis Requested		Job #:																	
City: Merrimack		TAT Requested (days):		Total Number of Containers		Preservation Codes:																	
State, Zip: NH, 03054		Compliance Project: ☐ Yes ☐ No				A - HCL M - Hexane																	
Phone: 508-735-5291		PO #: 2014227021 213 02				B - NaOH N - None																	
Email: Brendan_Lennon@golder.com		WO #:				C - Zn Acetate O - AsNaO2																	
Project Name: SGPP Rainwater- PFAS 24 Lis		Project #: 41007947		D - Nitric Acid P - Na2O4S		Q - Na2SO3																	
Site: SSOW#:		SSOW#:		E - NaHSO4 R - Na2S2O3		S - H2SO4																	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		PFC_IDA - (MOD) PFAS list of 24		Special Instructions/Note:									
RP- FB		11/11/22		15:55		G		Water		X		X											
RP- EB		11/11/22		17:00		G		Water		X		X											
RP- 1		11/11/22		17:40		G		Water		X		X											
RP- 2		11/11/22		18:00		G		Water		X		X											
RP- 3		11/11/22		18:15		G		Water		X		X											
RP- 4		11/11/22		18:35		G		Water		X		X											
RP- 1		11/11/22		20:20		G		Water		X		X											
RP- 2		11/11/22		20:25		G		Water		X		X											
RP- 3		11/11/22		20:35		G		Water		X		X											
RP- 4		11/11/22		20:45		G		Water		X		X											
								Water															
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months													
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements:													
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:											
Relinquished by: B. Lennon				Date/Time: 11/14/22 12:30				Company: GAS				Received by: S Jones				Date/Time: 11/14/22 1230				Company: Golder			
Relinquished by: S. Jones				Date/Time: 11/14/22 1630				Company: Golder				Received by: _____				Date/Time: _____				Company: _____			
Relinquished by: _____				Date/Time: _____				Company: _____				Received by: MRP				Date/Time: 11/15/22 1008				Company: MRP			
Custody Seals Intact: ☐ Yes ☐ No				Custody Seal No.:				Cooler Temperature(s)°C and Other Remarks: 0.9-1.6															

eurofins Environment Testing America

1/6/2023

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Ver: 06/08/2021

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Login Sample Receipt Checklist

Client: Golder Associates Inc

Job Number: 410-105783-1

Login Number: 105783

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Leakway, Christian

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	