March 28, 2025

Stephanie Fitzgerald
Environmental Engineer
Div. of Remediation
NYSDEC Region 7
615 Erie Blvd. West, Syracuse, NY 13204-2400

Re: Annual Landfill Inspection Report (Year 21)
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Dear Ms. Fitzgerald:

Rocterra, LLC (Rocterra), on behalf of TPC-York Inc. (TPC-York), has prepared this letter report to summarize the required monitoring and maintenance activities completed at the Syracuse China Landfill site located in the Town of Salina, Onondaga County, New York (Site No. 7-34-053). In accordance with New York State Department of Environmental Conservation (NYSDEC) requirements, activities for the twenty first year of Operation, Monitoring and Maintenance (OM&M) were performed at the site. In accordance with the OM&M Plan prepared by Remedial Engineering, PC dated September 25, 2003 and the schedule approved by NYSDEC, the following activities were performed:

- Inspection of key site features including the landfill surface, vegetation, fence, access road and drainage features such as rip rap swales and energy dissipaters;
- Maintenance activities; and
- Groundwater sampling.

Supporting figures and documentation are included at the end of this report.

LANDFILL MONITORING

Rocterra conducted an inspection of the landfill and surrounding site areas on July 3, 2024 and July 19, 2024. Rocterra personnel inspected site vegetation, the landfill cap surface and the northern wetlands for any signs of erosion or significant settlement. Rocterra also inspected the swales, drop chute, energy dissipation structures,

Rocterra 7 Ontario View Street, Rochester, NY 14617 p | 585.698.6842

monitoring wells MW-2, MW-5, MW-6, MW-8 and MW-10, permanent landfill gas vents GV-1 through GV-7, fencing, access road and Syracuse China signs for erosion, blockage or other damage. The results of Rocterra's inspection activities are summarized in the Site Monitoring, Inspection and Maintenance Forms, provided as Appendix A. Photographs showing the condition of key site features are provided as Appendix B. A site plan showing key site features is provided as Figure 3.

Rocterra's inspection indicated that the site was generally in good condition with no significant erosion or differential settlement at or around the landfill. The landfill surface was observed to be entirely stabilized with vegetation. The landfill drainage swales, drop chute and energy dissipation structures were observed to be in good condition, however, portions of the swales have become congested with vegetation. The permanent gas vents were also observed to be in good condition. The former trolley berm was observed to be generally clear of vegetation; rutting was observed due to wet conditions. The site fence was observed to be in good condition. CSX erosion control improvements were noted outside the southwest portion of the fenceline. See Appendix B for photo documentation. Vegetation overgrowth was observed periodically along the east, south and west fence line. Vegetation was cleared to ensure the signs on the fence within the Factory Avenue right-of-way were unobstructed. Two replacement signs were installed along the new/replacement fencing area along Factory Avenue. See Appendix B for photo documentation.

MAINTENANCE ACTIVITIES PERFORMED

Herbicide Application

Portions of the swales have become congested with vegetation. Treatment with a widely used aquatic herbicide Rodeo was completed on July 19, 2024. Additional treatments will occur and are discussed further below.

Mowing and Weed-Whacking

Annual mowing and weed-whacking activities were completed by Commerical Lawn and Landscape, Inc. on September 11 and 12, 2024. Mowing was conducted on the landfill surface, within the eastern portion of the site (outside of wetland areas) and along the access road. Mowing and weed-whacking were conducted within the landfill surface swales to remove woody growth. Photographs documenting the landscaping activities are included within Appendix B.

SAMPLING ACTIVITIES

Groundwater sampling was performed on September 11, 2024. Groundwater levels were gauged and low flow samples were collected from monitoring wells MW-2, MW-5, MW-6, MW-8 and MW-10. All samples were analyzed for lead. Monitoring wells MW-2, MW-6, and MW-10 were sampled for PFAS only via EPA method 537.

The Site location and site features are represented in figures 1, 2 and 3. Groundwater monitoring well locations are provided on Figure 3. The results of the sampling

activities are summarized in the Site Monitoring, Inspection and Maintenance Forms provided in Appendix A. Historical groundwater sampling data is summarized in Table 1. Laboratory analytical reports are provided in Appendix B.

Sample results from the December 2024 groundwater sampling event indicate that lead was not detected above the laboratory detection limit in any of the sampled monitoring wells.

The sample from MW-10 exceeded the New York Department of Health (NYSDOH) Recommended Maximum Contaminant Level (MCL) for perfluorooctanesulfonic acid (PFOS) by 12 nanograms per liter. No other exceedances were identified for monitoring well MW-10. MW-2 and MW-6 were below NYSDOH and NYSDEC guidance levels for all emerging contaminant compounds. Based upon the relative concentration, the prolific nature of background PFAS/PFOS contaminants, the similar and stable concentration trend compared to 2019 results and the improbability that the landfill source materials contributed to the PFAS/PFOS exceedance, the sampling results are not indicative of a material source of PFOS/PFAS contamination at the site.

It is also important to note that there are no water supply wells within ½ mile of the site, local ordinances preclude the installation of such wells and there is a Site groundwater use restriction within the Declaration of Covenants and Restrictions accompanying the deed. Based on the results of groundwater monitoring conducted at the site during the current review period and the accompanying discussion above, the remedy implemented at the site is protective of site groundwater. It is respectfully requested that PFOS/PFAS monitoring be discontinued from the site monitoring requirements.

A summary of sample results is provided below.

Monitoring Well Identification	**9/11/24 Lead (mg/L)**	**9/11/24 PFOA (ng/L)**	**9/11/24 PFOS (ng/L)**
MCL Standard	**0.025**	**10**	**10**
MW-2	<0.010	8.2	3.3
MW-5	<0.010	-	-
MW-6	<0.010	0.64J	4.5
MW-8	<0.010	-	-
MW-10	<0.010	6.7	**22**

< = Not detected above the laboratory reporting limit

Rocterra 7 Ontario View Street, Rochester, NY 14617 **p** | 585.698.6842

PROPOSED YEAR 21 (2024) OM&M AND MAINTENANCE ACTIVITIES

Herbicide Application
Portions of the swales have become congested with vegetation. Treatment with a widely used aquatic herbicide Rodeo is proposed for Spring 2025.

Mowing and Weed-Whacking
In accordance with the OM&M Plan, the landfill will require annual mowing and weed-whacking in fall 2025 to prevent woody vegetation growth on the landfill cap and within the drainage swales. Landscape maintenance activities are scheduled for September of 2025 to avoid potential weather-related delays.

Annual Landfill Inspection
In accordance with the OM&M Plan, an inspection of the landfill is proposed for Year 22 of OM&M. The annual inspection is scheduled for September 2025.

SAMPLING EVENTS

Groundwater Monitoring
TPC-York was granted approval via email correspondence dated November 20, 2015 to amend the groundwater sampling period to every five years. The next sampling event is scheduled to be performed in September 2029.

COMMENTS

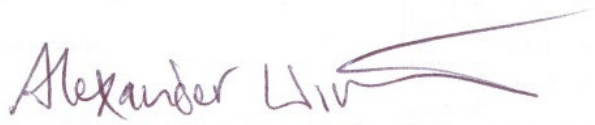
Animal Dens/Burrows
One animal burrow was observed during the 2024 inspection. This area will be monitored for any differential settlement or erosion during the 2025 inspections.

Periodic Review Report
The last Periodic Review Report (PRR) was completed in March 2022. The Department approved a request to amend the PRR schedule to a five-year frequency in an email dated March 21, 2014. The site is not currently active and site maintenance/activities are limited to the items reported above. The institutional controls identified in the most recent 2022 PRR/Declaration of Covenants and Restrictions (groundwater use restrictions, soil management and site management) remain in place. The next PRR submission is scheduled to be submitted in March 2027.

Please call the undersigned with any questions regarding this report.

Rocterra 7 Ontario View Street, Rochester, NY 14617 **p** | 585.698.6842

Attachments:	**Figure 1:**	Site Location Map
	Figure 2:	Site Plan
	Figure 3:	Site Feature Location Plan
	Appendix A:	Site Monitoring, Inspection and Maintenance Forms
	Appendix B:	Photographs
	Appendix C:	Supporting Documents



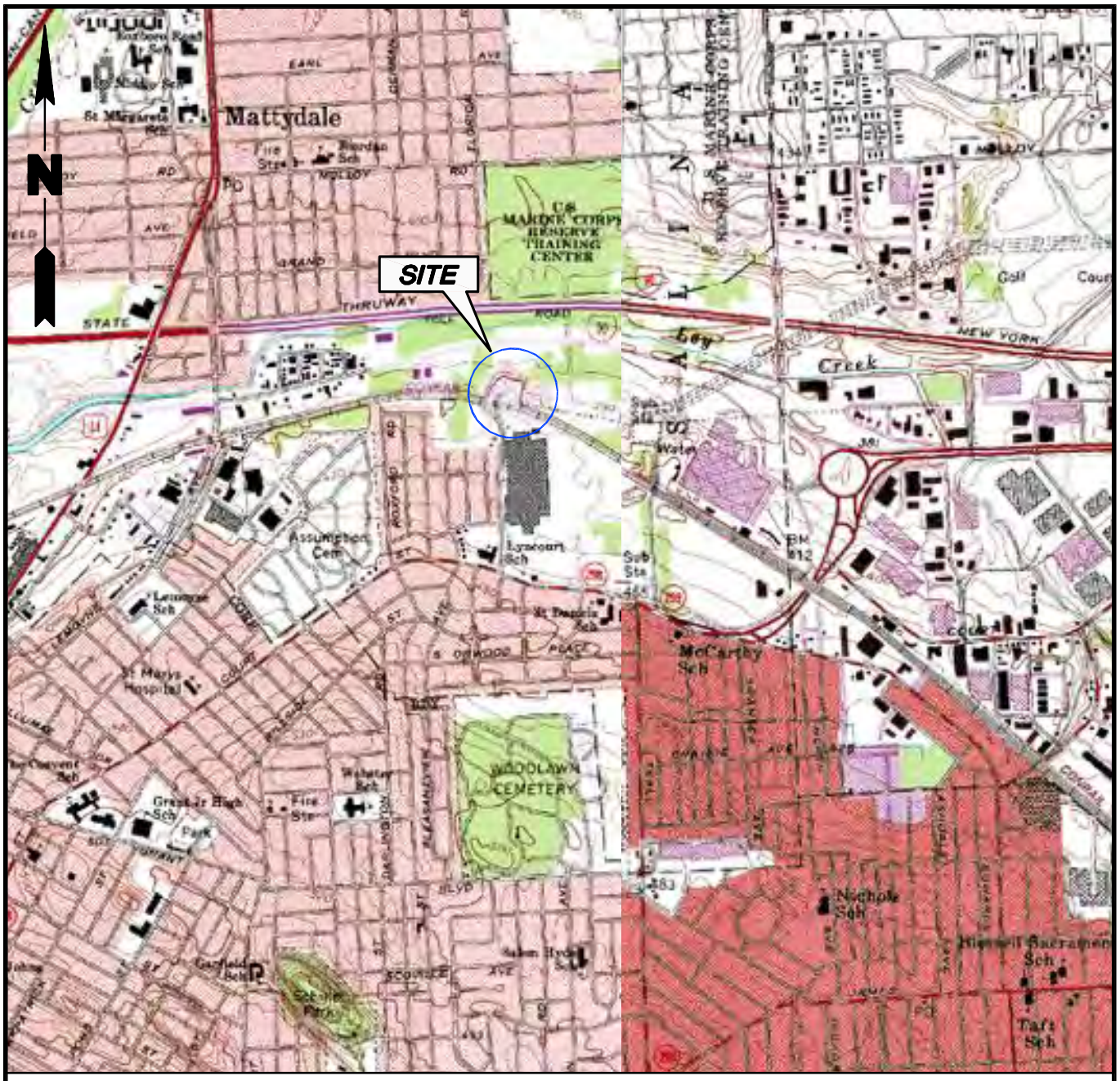
March 28, 2025

Alexander Wirth
Principal, Senior Geologist

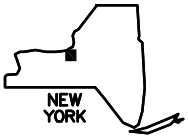
Date

Rocterra 7 Ontario View Street, Rochester, NY 14617 **p** | 585.698.6842

FIGURES



2,000' 0' 2,000'



SOURCE

U.S.G.S. SYRCUSE EAST AND WEST, NEW YORK QUADRANGLES
7.5 MINUTES SERIES (TOPOGRAPHIC)

Title:

SITE LOCATION MAP

SYRACUSE CHINA LANDFILL
TOWN OF SALINA, ONONDAGA COUNTY, NEW YORK

Prepared For:

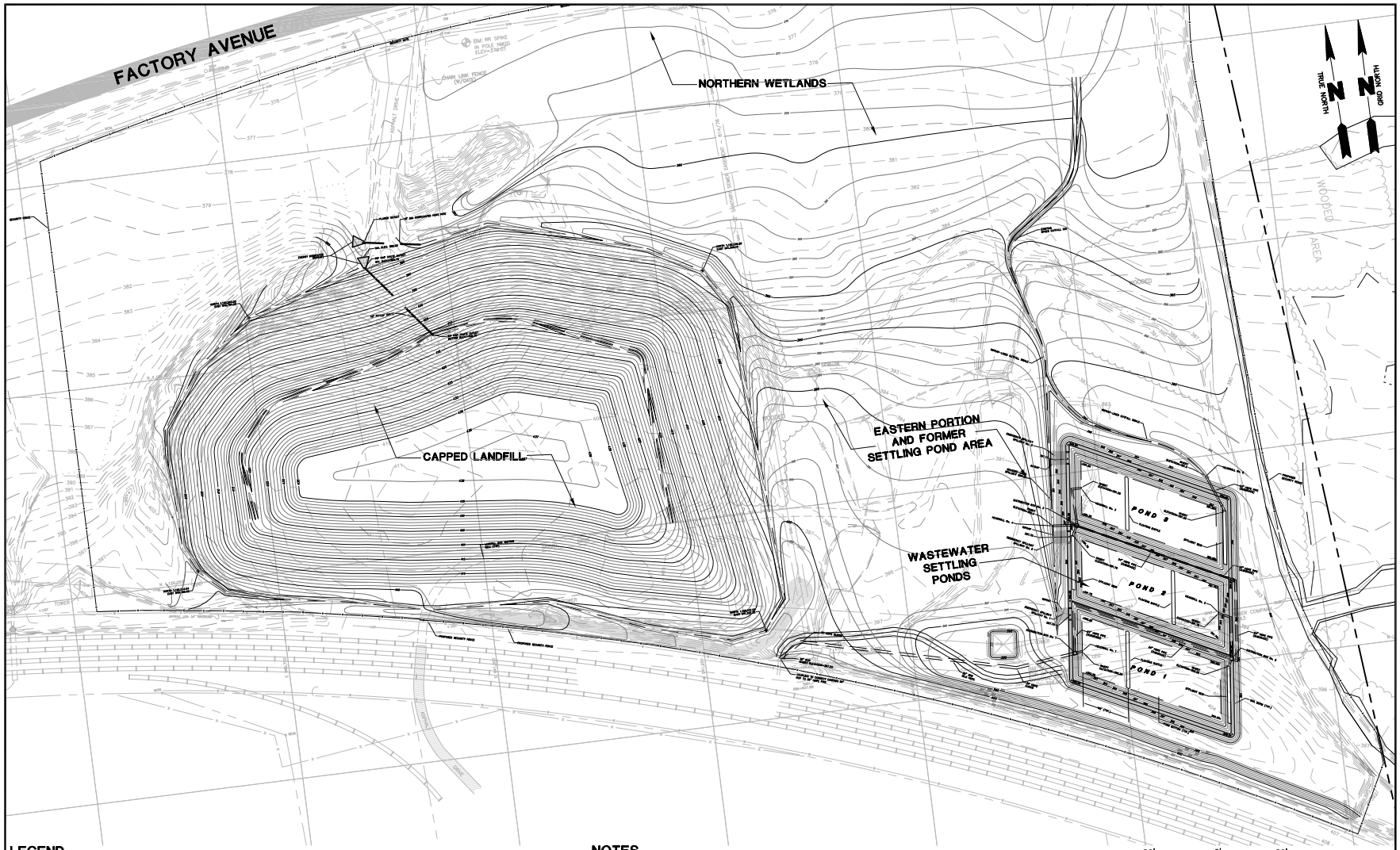
PFALTZGRAFF CO.

ROCTERRA

Site Location Map

FIGURE

1



LEGEND

- EXISTING PROPERTY LINE
- APPROXIMATE LANDFILL LIMIT
- EXISTING EASEMENT
- 434 DESIGN 1 FOOT CONTOUR
- 435 DESIGN 5 FOOT CONTOUR
- x438 DESIGN SPOT ELEVATION
- 404 PRE-EXISTING 1 FOOT CONTOUR
- 405 PRE-EXISTING 5 FOOT CONTOUR
- EXISTING RAILROAD TRACKS
- OHW EXISTING OVERHEAD ELECTRICAL TRANSMISSION WIRES
- SAN EXISTING SUBSURFACE SANITARY SEWER WATERLINE
- EXISTING APPROXIMATE LOCATION 24" WATERLINE
- GAS EXISTING GAS LINE LOCATION
- UGT EXISTING UNDERGROUND TELEPHONE LINE (FIBER OPTIC) LOCATION
- DESIGN DOWN CHUTE
- FENCE
- RIM=397.41 EXISTING MANHOLE RIM ELEVATION
- EXISTING UTILITY POLE WITH OVERHEAD WIRES
- UGT EXISTING UNDERGROUND TELEPHONE CABLE MARKER
- GM EXISTING GAS MARKER
- 15" PVC EXISTING POLYVINYL CHLORIDE CHLORIDE PIPE WITH DIAMETER
- MON EXISTING SURVEY MONUMENT SET 3-8-1990 CAPPED IRON ROD SET IN CONCRETE)
- SMH EXISTING SANITARY SEWER MANHOLE
- INV.=36" EXISTING PIPE INVERT ELEVATION
- 36" CMP EXISTING CORRUGATED METAL PIPE WITH DIAMETER

NOTES

1.) BASE MAP INFORMATION BASED ON PLAN ENTITLED:, "MAP OF PARTIAL BOUNDARY & TOPOGRAPHIC SURVEY", PARCEL OF LAND, PART OF MILITARY LOT 19, TOWN OF SALINA, JANUARY 20, 1998, SCALE 1" = 50', PROJECT 90006, PREPARED BY RYAN SURVEY, PORTER BUILDING, NORTHERN LIGHTS OFFICE PARK, SYRACUSE, NY 13220-3225.

2.) BASIS OF BEARINGS: TRUE NORTH, BASED ON CONTROL ESTABLISHED BY N.Y.S.D.O.T.

3.) NORTH & EAST COORDINATES AND BEARINGS IN PARENTHESIS () ARE REFERENCED TO THE CENTRAL ZONE OF THE NEW YORK STATE COORDINATE SYSTEM AS ESTABLISHED BY DIFFERENTIAL GPS METHODS.

4.) ELEVATION DATUM IS MEAN SEA LEVEL, BASED ON CONTROL ESTABLISHED BY U.S.G.S. (NGVD 29).

5.) PLAN BASED ON DESIGN DRAWINGS, AS-BUILT DRAWINGS NOT AVAILABLE. ACTUAL SITE FEATURES AND ELEVATIONS WILL VARY.

ROCTERRA

Title:

Site Plan

TOWN OF SALINA, ONONDAGA COUNTY, NEW YORK

Prepared For:

THE PFALTZGRAFF CO.

FIGURE 2

Google Earth Pro

feet 1000
meters 400

ROCTerra

Groundwater Monitoring Well Map

Figure
3

APPENDIX A

Table 1
MONITORING WELL GAUGING, GROUNDWATER ANALYTICAL AND MONITORING DATA

Annual Landfill Inspection Report
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Sample ID	Date	Depth to Water (Feet)	Depth to Bottom (Feet)	Top of Casing Elevation (Feet, Mean Sea Level)	Corrected Groundwater Elevation (Feet, Mean Sea Level)	Lead (mg/l)	PFOA (ng/L)	PFOS (ng/L)
NYSDEC Standards						**0.025**	**10**	**10**
MW-1	11/7/2012	21.78	25.3	400.8	379.02	<0.010	-	-
	9/11/2013	19.84	25.3	400.8	380.96	<0.010	-	-
	12/31/2014	20.77	25.3	400.8	380.03	<0.010	-	-
Abandoned								
MW-2	11/7/2012	5.32	13.3	391.2	385.88	<0.010	-	-
	9/11/2013	5.23	13.3	391.2	385.97	<0.010	-	-
	12/31/2014	5.28	13.3	391.2	385.92	<0.010	-	-
	5/19/2019	-	13.3	391.2	-	-	6.94	2.29
	12/12/2019	3.55	13.3	391.2	387.65	<0.010	-	-
	9/11/2024	3.65	13.3	391.2	387.55	<0.010	8.20	3.3

Table 1
MONITORING WELL GAUGING, GROUNDWATER ANALYTICAL AND MONITORING DATA

Annual Landfill Inspection Report
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Sample ID	Date	Depth to Water (Feet)	Depth to Bottom (Feet)	Top of Casing Elevation (Feet, Mean Sea Level)	Corrected Groundwater Elevation (Feet, Mean Sea Level)	Lead (mg/l)	PFOA (ng/L)	PFOS (ng/L)
NYSDEC Standards						**0.025**	**10**	**10**
MW-5	11/7/2012	5.13	13.4	387.4	382.27	<0.010	-	-
	9/11/2013	4.64	13.4	387.4	382.76	<0.010	-	-
	12/31/2014	4.84	13.4	387.4	382.56	<0.010	-	-
	12/12/2019	3.86	13.4	387.4	383.54	<0.010	-	-
	9/11/2024	3.97	13.3	391.2	387.23	<0.010		
MW-6	11/7/2012	4.73	17.0	411.3	406.57	<0.010	-	-
	9/11/2013	4.15	17.0	411.3	407.15	<0.010	-	-
	12/31/2014	4.44	17.0	411.3	406.86	<0.010	-	-
	5/19/2019	-	17.0	411.3	-	-	4.01	4.38
	12/12/2019	3.50	17.0	411.3	407.80	<0.010	0.64J	4.5
	9/11/2024	3.61	13.3	391.2	387.59	<0.010		

Table 1
MONITORING WELL GAUGING, GROUNDWATER ANALYTICAL AND MONITORING DATA

Annual Landfill Inspection Report
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Sample ID	Date	Depth to Water (Feet)	Depth to Bottom (Feet)	Top of Casing Elevation (Feet, Mean Sea Level)	Corrected Groundwater Elevation (Feet, Mean Sea Level)	Lead (mg/l)	PFOA (ng/L)	PFOS (ng/L)
NYSDEC Standards						**0.025**	**10**	**10**
MW-8	11/7/2012	7.15	23.0	388.7*	381.55	<0.010	-	-
	9/11/2013	4.43	23.0	388.7	384.27	<0.010	-	-
	12/31/2014	6.63	23.0	388.7	382.07	<0.010	-	-
	12/12/2019	3.49	23.0	388.7	385.21	<0.010	-	-
	9/11/2024	3.60	13.3	391.2	387.60	<0.010		
MW-10	11/7/2012	3.30	17.0	379.1	375.80	<0.010	-	-
	9/11/2013	3.28	17.0	379.1	375.82	<0.010	-	-
	12/31/2014	3.33	17.0	379.1	375.77	<0.010	-	-
	5/1/2019	-	17.0	379.1	-	-	6.98	17.2
	12/12/2019	2.86	17.0	379.1	376.24	<0.010	-	-
	9/11/2024	2.96	13.3	391.2	388.24	<0.010	6.70	22

Notes:
<1.0 - Not detected at or above the laboratory reporting limit shown.
NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

Table 1
MONITORING WELL GAUGING, GROUNDWATER ANALYTICAL AND MONITORING DATA

Annual Landfill Inspection Report
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Sample ID	Date	Depth to Water (Feet)	Depth to Bottom (Feet)	Top of Casing Elevation (Feet, Mean Sea Level)	Corrected Groundwater Elevation (Feet, Mean Sea Level)	Lead (mg/l)	PFOA (ng/L)	PFOS (ng/L)
NYSDEC Standards						**0.025**	**10**	**10**

NYSDOH 2020 MCLs
* Revised elevation datum. Original TOC elevation= 387.9'
11/7/12 Survey Data:
Benchmark: 6.79'
MW-8: 0.70'
MW-10: 10.29'
Return Benchmark: 6.79'
Calculation: MW-10 MSL (379.1') + MW-10 11/7/12 Survey elevation (10.29') - MW-8 11/7/12 Survey elevation (0.70')= Revised MW-8 MS
indicates results above regulatory standards

Table 2
INSPECTION AND MAINTENANCE FORM

Annual Landfill Inspection Report
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Item	Action	Notes	Corrective Action Suggested
MW-1	Inspect for damage	Damaged/destroyed	Abandoned November 2, 2016
MW-2	Inspect for damage	NA	Annual inspection scheduled for September 2025
MW-5	Inspect for damage	NA	Annual inspection scheduled for September 2025
MW-6	Inspect for damage	NA	Annual inspection scheduled for September 2025
MW-8	Inspect for damage	NA	Annual inspection scheduled for September 2025
MW-10	Inspect for damage	NA	Annual inspection scheduled for September 2025
GV-1	Inspect for damage	NA	Annual inspection scheduled for September 2025
GV-2	Inspect for damage	NA	Annual inspection scheduled for September 2025
GV-3	Inspect for damage	NA	Annual inspection scheduled for September 2025
GV-4	Inspect for damage	NA	Annual inspection scheduled for September 2025
GV-5	Inspect for damage	NA	Annual inspection scheduled for September 2025
GV-6	Inspect for damage	NA	Annual inspection scheduled for September 2025
GV-7	Inspect for damage	NA	Annual inspection scheduled for September 2025
Landfill Cap	Inspect vegetation, inspect for errosion, inspect for significant/differential settling, mowing	One animal burrow was noted	Monitor animal burrow area for any differential settlement or significant erosion, landscaping/mowing scheduled for September 2025
Northern Wetland	Inspect vegetation	NA	Annual inspection scheduled for September 2025
Swales	Inspect for damage/blockage, weed wacking	Swales have significant vegetation	Herbicide application Spring 2025
Drop Chute	Inspect for damage/blockage, weed wacking	NA	Landscaping/weedwacking/herbicide scheduled for 2025
Former Trolley Berm (via Factory Ave)	Inspect for erosion, rutting, mowing	Low spot in southeast corner restricts access to the landfill by vehicle at times due to flooding/wet soils	Monitor for any significant erosion
Fence	Inspect integrity, inspect for significant vegetation	NA	Annual inspection scheduled for September 2025
Signs	Inspect for vegetation/visual impairment	NA	Annual inspection scheduled for September 2025

Notes:
NA- Not Applicable

APPENDIX B


RESTRICTED
AREA FOR
EXCAVATION


RESTRICTED
AREA FOR
EXCAVATION

APPENDIX C

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Alex Wirth
ROCTerra
7 Ontario View St.
Rochester NY 14617

Generated 9/26/2024 10:26 AM

JOB DESCRIPTION

Syracuse China Project

JOB NUMBER

480-223310-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

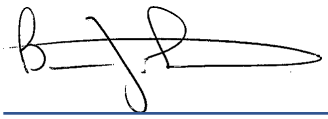
Eurofins Buffalo

Job Notes

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

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

Authorization



Generated
9/26/2024 10:26 AM

Authorized for release by
Brian J Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
716 504-9835

Table of Contents

Table of Contents

Job Narrative
480-223310-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 9/12/2024 9:30 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 2.7°C and 3.0°C.

PFAS
Method PFC_IDA: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 200-208694.

Method PFC_IDA: Method 537 (modified): The "I" qualifier associated with sample MW-10 (480-223310-3) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

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

Metals
Method 6010D: The low level continuing calibration verification (CCVL) for analytical batch 480-725567 recovered above the upper control limit for (total Lead). The samples associated with this CCVL were ND; therefore, re-analysis of samples MW-2 (480-223310-2), MW-10 (480-223310-3), MW-8 (480-223310-5) and (MB 480-724936/1-A) was not performed.

Method 6010D: The low level continuing calibration verification (CCVL) for analytical batch 480-725567 recovered above the upper control limit for (total Lead). The samples associated with this CCVL contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCS 480-724936/2-A) and (LCSD 480-724936/3-A) was not performed.

Method 6010D: The low level continuing calibration verification (CCVL) for analytical batch 480-725624 recovered above the upper control limit for (total Lead). The sample associated with this CCVL were ND; therefore, re-analysis of samples MW-5 (480-223310-4) was not performed.

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

Sample Summary

Client: ROCTerra
Job ID: 480-223310-1
Project/Site: Syracuse China Project

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-223310-1	MW-6	Water	09/11/24 12:00	09/12/24 09:30
480-223310-2	MW-2	Water	09/11/24 13:00	09/12/24 09:30
480-223310-3	MW-10	Water	09/11/24 14:05	09/12/24 09:30
480-223310-4	MW-5	Water	09/11/24 15:15	09/12/24 09:30
480-223310-5	MW-8	Water	09/11/24 16:30	09/12/24 09:30
480-223310-6	DUP	Water	09/11/24 08:00	09/12/24 09:30

Detection Summary

Client: ROCTerra
Project/Site: Syracuse China Project

Job ID: 480-223310-1

Client Sample ID: MW-6 — Lab Sample ID: 480-223310-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.7	0.43	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorobutanoic acid (PFBA)	1.3	J	4.2	1.0	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.71	J	1.7	0.33	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorononanoic acid (PFNA)	0.95	J	1.7	0.18	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.5		1.7	0.42	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorooctanoic acid (PFOA)	0.64	J	1.7	0.34	ng/L	1		BR-LC-009 r8	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 480-223310-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.9	0.49	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorobutanoic acid (PFBA)	37		4.8	1.1	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorodecanoic acid (PFDA)	1.5	J	1.9	0.35	ng/L	1		BR-LC-009 r8	Total/NA
Perfluoroheptanoic acid (PFHpA)	23		1.9	0.35	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.82	J	1.9	0.37	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorohexanoic acid (PFHxA)	61		1.9	0.70	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorononanoic acid (PFNA)	2.3		1.9	0.21	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.3		1.9	0.48	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorooctanoic acid (PFOA)	8.2		1.9	0.39	ng/L	1		BR-LC-009 r8	Total/NA
Perfluoropentanoic acid (PFPeA)	150		1.9	0.47	ng/L	1		BR-LC-009 r8	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	57		4.8	1.7	ng/L	1		BR-LC-009 r8	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 480-223310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.46	J	1.7	0.44	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorobutanoic acid (PFBA)	2.8	J	4.3	1.0	ng/L	1		BR-LC-009 r8	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.69	J	1.7	0.16	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.7	0.34	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorononanoic acid (PFNA)	0.95	J	1.7	0.19	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorooctanesulfonic acid (PFOS)	22	I	1.7	0.43	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorooctanoic acid (PFOA)	6.7		1.7	0.36	ng/L	1		BR-LC-009 r8	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 480-223310-4

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 480-223310-5

No Detections.

Client Sample ID: DUP — Lab Sample ID: 480-223310-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.6	0.40	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorobutanoic acid (PFBA)	1.6	J	3.9	0.95	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.67	J	1.6	0.31	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorononanoic acid (PFNA)	0.96	J	1.6	0.17	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.6		1.6	0.39	ng/L	1		BR-LC-009 r8	Total/NA
Perfluorooctanoic acid (PFOA)	0.46	J	1.6	0.32	ng/L	1		BR-LC-009 r8	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ROCTerra
Job ID: 480-223310-1
Project/Site: Syracuse China Project

Method	Method Description	Protocol	Laboratory
BR-LC-009 r8	ETB SOP BR-LC-009 REV 8.0	Lab SOP	EET BUR
6010D	Metals (ICP)	SW846	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
3535	Solid-Phase Extraction (SPE)	SW846	EET BUR

Protocol References:

Lab SOP = Laboratory Standard Operating Procedure

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

Laboratory References:

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

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Client Sample ID: MW-6

Date Collected: 09/11/24 12:00
Date Received: 09/12/24 09:30

Lab Sample ID: 480-223310-1

Matrix: Water

Method: Lab SOP BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	1.3	ng/L		09/17/24 08:21	09/18/24 01:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	1.4	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorobutanesulfonic acid (PFBS)	**1.5**	**J**	1.7	0.43	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorobutanoic acid (PFBA)	**1.3**	**J**	4.2	1.0	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.31	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.36	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.15	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.31	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorohexanesulfonic acid (PFHxS)	**0.71**	**J**	1.7	0.33	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.61	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorononanoic acid (PFNA)	**0.95**	**J**	1.7	0.18	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.34	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorooctanesulfonic acid (PFOS)	**4.5**		1.7	0.42	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorooctanoic acid (PFOA)	**0.64**	**J**	1.7	0.34	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.25	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.28	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.23	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.41	ng/L		09/17/24 08:21	09/18/24 01:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.2	1.5	ng/L		09/17/24 08:21	09/18/24 01:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.7	1.1	ng/L		09/17/24 08:21	09/18/24 01:55	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28	ng/L		09/17/24 08:21	09/18/24 01:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*101*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
M2-8:2 FTS	*102*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C2 PFDA	*96*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C2 PFDoA	*82*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C2 PFHxA	*100*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C2 PFTeDA	*75*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C2 PFUnA	*91*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C4 PFBA	*92*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C4 PFHpA	*98*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C4 PFOA	*100*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C5 PFNA	*99*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C5 PFPeA	*96*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C8 FOSA	*83*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
18O2 PFHxS	*94*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
d3-NMeFOSAA	*109*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
d5-NEtFOSAA	*115*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C4 PFOS	*93*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*
13C3 PFBS	*93*		*50 - 150*	*09/17/24 08:21*	*09/18/24 01:55*	*1*

Client Sample ID: MW-6
Lab Sample ID: 480-223310-1

Date Collected: 09/11/24 12:00
Matrix: Water
Date Received: 09/12/24 09:30

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		09/16/24 09:19	09/20/24 11:36	1

Client Sample ID: MW-2
Lab Sample ID: 480-223310-2

Date Collected: 09/11/24 13:00
Matrix: Water
Date Received: 09/12/24 09:30

Method: Lab SOP BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	1.5	ng/L		09/17/24 08:21	09/18/24 02:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	1.6	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorobutanesulfonic acid (PFBS)	**1.4**	**J**	1.9	0.49	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorobutanoic acid (PFBA)	**37**		4.8	1.1	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorodecanoic acid (PFDA)	**1.5**	**J**	1.9	0.35	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.41	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.17	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluoroheptanoic acid (PFHpA)	**23**		1.9	0.35	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorohexanesulfonic acid (PFHxS)	**0.82**	**J**	1.9	0.37	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorohexanoic acid (PFHxA)	**61**		1.9	0.70	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorononanoic acid (PFNA)	**2.3**		1.9	0.21	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.39	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorooctanesulfonic acid (PFOS)	**3.3**		1.9	0.48	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorooctanoic acid (PFOA)	**8.2**		1.9	0.39	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.29	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.32	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.26	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluoropentanoic acid (PFPeA)	**150**		1.9	0.47	ng/L		09/17/24 08:21	09/18/24 02:03	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**57**		4.8	1.7	ng/L		09/17/24 08:21	09/18/24 02:03	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.9	1.2	ng/L		09/17/24 08:21	09/18/24 02:03	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.33	ng/L		09/17/24 08:21	09/18/24 02:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*109*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
M2-8:2 FTS	*108*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C2 PFDA	*103*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C2 PFDoA	*86*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C2 PFHxA	*100*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C2 PFTeDA	*79*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C2 PFUnA	*95*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C4 PFBA	*94*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C4 PFHpA	*96*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C4 PFOA	*101*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C5 PFNA	*102*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C5 PFPeA	*99*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C8 FOSA	*90*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
18O2 PFHxS	*97*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*

Client Sample ID: MW-2
Lab Sample ID: 480-223310-2
Date Collected: 09/11/24 13:00
Matrix: Water
Date Received: 09/12/24 09:30

Method: Lab SOP BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0 (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d3-NMeFOSAA	*115*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
d5-NEtFOSAA	*121*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C4 PFOS	*99*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*
13C3 PFBS	*94*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^1+	0.010	0.0030	mg/L		09/16/24 09:19	09/18/24 15:32	1

Client Sample ID: MW-10
Lab Sample ID: 480-223310-3
Date Collected: 09/11/24 14:05
Matrix: Water
Date Received: 09/12/24 09:30

Method: Lab SOP BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	1.4	ng/L		09/17/24 08:21	09/18/24 02:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	1.5	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorobutanesulfonic acid (PFBS)	**0.46**	**J**	1.7	0.44	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorobutanoic acid (PFBA)	**2.8**	**J**	4.3	1.0	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.32	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.37	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.69**	**J**	1.7	0.16	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.32	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorohexanesulfonic acid (PFHxS)	**2.2**		1.7	0.34	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.63	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorononanoic acid (PFNA)	**0.95**	**J**	1.7	0.19	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.36	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorooctanesulfonic acid (PFOS)	**22**	**I**	1.7	0.43	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorooctanoic acid (PFOA)	**6.7**		1.7	0.36	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.26	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.29	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.23	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.43	ng/L		09/17/24 08:21	09/18/24 02:12	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.3	1.6	ng/L		09/17/24 08:21	09/18/24 02:12	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.7	1.1	ng/L		09/17/24 08:21	09/18/24 02:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.30	ng/L		09/17/24 08:21	09/18/24 02:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*104*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
M2-8:2 FTS	*106*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C2 PFDA	*101*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C2 PFDoA	*88*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C2 PFHxA	*101*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C2 PFUnA	*95*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*

Client Sample ID: MW-10
Lab Sample ID: 480-223310-3
Date Collected: 09/11/24 14:05
Matrix: Water
Date Received: 09/12/24 09:30

Method: Lab SOP BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0 (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C4 PFHpA	*98*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C4 PFOA	*102*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C5 PFNA	*99*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C5 PFPeA	*100*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C8 FOSA	*85*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
18O2 PFHxS	*97*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
d3-NMeFOSAA	*120*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
d5-NEtFOSAA	*122*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C4 PFOS	*99*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*
13C3 PFBS	*95*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:12*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^1+	0.010	0.0030	mg/L		09/16/24 09:19	09/18/24 15:34	1

Client Sample ID: MW-5
Lab Sample ID: 480-223310-4
Date Collected: 09/11/24 15:15
Matrix: Water
Date Received: 09/12/24 09:30

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^1+	0.010	0.0030	mg/L		09/16/24 09:19	09/19/24 11:55	1

Client Sample ID: MW-8
Lab Sample ID: 480-223310-5
Date Collected: 09/11/24 16:30
Matrix: Water
Date Received: 09/12/24 09:30

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^1+	0.010	0.0030	mg/L		09/16/24 09:19	09/18/24 15:37	1

Client Sample ID: DUP
Lab Sample ID: 480-223310-6
Date Collected: 09/11/24 08:00
Matrix: Water
Date Received: 09/12/24 09:30

Method: Lab SOP BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.9	1.3	ng/L		09/17/24 08:21	09/18/24 02:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.9	1.3	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorobutanesulfonic acid (PFBS)	**1.5**	**J**	1.6	0.40	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorobutanoic acid (PFBA)	**1.6**	**J**	3.9	0.95	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.29	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.34	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.14	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.29	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorohexanesulfonic acid (PFHxS)	**0.67**	**J**	1.6	0.31	ng/L		09/17/24 08:21	09/18/24 02:20	1

Client Sample ID: DUP
Date Collected: 09/11/24 08:00
Date Received: 09/12/24 09:30

Lab Sample ID: 480-223310-6
Matrix: Water

Method: Lab SOP BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.58	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorononanoic acid (PFNA)	**0.96**	**J**	1.6	0.17	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.32	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorooctanesulfonic acid (PFOS)	**4.6**		1.6	0.39	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorooctanoic acid (PFOA)	**0.46**	**J**	1.6	0.32	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.24	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.26	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.21	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.39	ng/L		09/17/24 08:21	09/18/24 02:20	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.9	1.4	ng/L		09/17/24 08:21	09/18/24 02:20	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.6	1.0	ng/L		09/17/24 08:21	09/18/24 02:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.27	ng/L		09/17/24 08:21	09/18/24 02:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*102*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
M2-8:2 FTS	*106*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C2 PFDA	*96*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C2 PFDoA	*83*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C2 PFHxA	*96*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C2 PFTeDA	*75*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C2 PFUnA	*91*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C4 PFBA	*87*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C4 PFHpA	*92*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C4 PFOA	*97*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C5 PFNA	*96*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C5 PFPeA	*94*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C8 FOSA	*86*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
18O2 PFHxS	*92*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
d3-NMeFOSAA	*115*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
d5-NEtFOSAA	*117*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C4 PFOS	*93*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*
13C3 PFBS	*89*		*50 - 150*	*09/17/24 08:21*	*09/18/24 02:20*	*1*

Isotope Dilution Summary

Client: ROCTerra
Job ID: 480-223310-1
Project/Site: Syracuse China Project

Method: BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	PFDA	PFDoA	PFHxA	PFTDA	PFUnA	PFBA
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
480-223310-1	MW-6	101	102	96	82	100	75	91	92
480-223310-2	MW-2	109	108	103	86	100	79	95	94
480-223310-3	MW-10	104	106	101	88	101	80	95	93
480-223310-6	DUP	102	106	96	83	96	75	91	87
LCS 200-208694/2-A	Lab Control Sample	103	104	102	86	103	72	99	107
LCSD 200-208694/3-A	Lab Control Sample Dup	101	104	99	88	102	78	96	106
MB 200-208694/1-A	Method Blank	99	103	98	86	101	77	97	102

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		C4PFHA	PFOA	PFNA	PFPeA	PFOSA	PFHxS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
480-223310-1	MW-6	98	100	99	96	83	94	109	115
480-223310-2	MW-2	96	101	102	99	90	97	115	121
480-223310-3	MW-10	98	102	99	100	85	97	120	122
480-223310-6	DUP	92	97	96	94	86	92	115	117
LCS 200-208694/2-A	Lab Control Sample	99	102	101	104	80	93	115	114
LCSD 200-208694/3-A	Lab Control Sample Dup	99	100	100	104	84	93	118	118
MB 200-208694/1-A	Method Blank	96	100	98	100	82	91	116	117

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PFOS	C3PFBS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)
480-223310-1	MW-6	93	93
480-223310-2	MW-2	99	94
480-223310-3	MW-10	99	95
480-223310-6	DUP	93	89
LCS 200-208694/2-A	Lab Control Sample	95	94
LCSD 200-208694/3-A	Lab Control Sample Dup	94	93
MB 200-208694/1-A	Method Blank	92	90

Surrogate Legend

M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
PFHxA = 13C2 PFHxA
PFTDA = 13C2 PFTeDA
PFUnA = 13C2 PFUnA
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFPeA = 13C5 PFPeA
PFOSA = 13C8 FOSA
PFHxS = 18O2 PFHxS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOS = 13C4 PFOS
C3PFBS = 13C3 PFBS

Method: BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0

Lab Sample ID: MB 200-208694/1-A
Matrix: Water
Analysis Batch: 208706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	1.6	ng/L		09/17/24 08:21	09/18/24 00:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	1.7	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.51	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorobutanoic acid (PFBA)	ND		5.0	1.2	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.37	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.43	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.18	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.37	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.39	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.73	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.22	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.41	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.41	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.30	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.33	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.27	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		09/17/24 08:21	09/18/24 00:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		5.0	1.8	ng/L		09/17/24 08:21	09/18/24 00:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.0	1.3	ng/L		09/17/24 08:21	09/18/24 00:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.34	ng/L		09/17/24 08:21	09/18/24 00:43	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*99*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
M2-8:2 FTS	*103*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C2 PFDA	*98*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C2 PFDoA	*86*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C2 PFHxA	*101*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C2 PFTeDA	*77*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C2 PFUnA	*97*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C4 PFBA	*102*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C4 PFHpA	*96*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C4 PFOA	*100*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C5 PFNA	*98*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C5 PFPeA	*100*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C8 FOSA	*82*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
18O2 PFHxS	*91*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
d3-NMeFOSAA	*116*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
d5-NEtFOSAA	*117*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C4 PFOS	*92*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*
13C3 PFBS	*90*		*50 - 150*	*09/17/24 08:21*	*09/18/24 00:43*	*1*

Method: BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0 (Continued)

Lab Sample ID: LCS 200-208694/2-A
Matrix: Water
Analysis Batch: 208706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	80.0	88.1		ng/L		110	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	80.0	87.1		ng/L		109	70 - 130
Perfluorobutanesulfonic acid (PFBS)	71.0	82.0		ng/L		116	70 - 130
Perfluorobutanoic acid (PFBA)	80.0	88.3		ng/L		110	70 - 130
Perfluorodecanoic acid (PFDA)	80.0	89.8		ng/L		112	70 - 130
Perfluorododecanoic acid (PFDoA)	80.0	89.7		ng/L		112	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	76.2	85.4		ng/L		112	70 - 130
Perfluoroheptanoic acid (PFHpA)	80.0	88.8		ng/L		111	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	73.1	81.6		ng/L		112	70 - 130
Perfluorohexanoic acid (PFHxA)	80.0	86.7		ng/L		108	70 - 130
Perfluorononanoic acid (PFNA)	80.0	85.0		ng/L		106	70 - 130
Perfluorooctanesulfonamide (PFOSA)	80.0	88.0		ng/L		110	70 - 130
Perfluorooctanesulfonic acid (PFOS)	74.2	82.3		ng/L		111	70 - 130
Perfluorooctanoic acid (PFOA)	80.0	89.0		ng/L		111	70 - 130
Perfluorotetradecanoic acid (PFTeA)	80.0	87.3		ng/L		109	70 - 130
Perfluorotridecanoic acid (PFTriA)	80.0	75.3		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	80.0	85.9		ng/L		107	70 - 130
Perfluoropentanoic acid (PFPeA)	80.0	91.3		ng/L		114	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.1	86.8		ng/L		114	60 - 140
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	89.4		ng/L		116	70 - 130
Perfluorodecanesulfonic acid (PFDS)	77.2	83.6		ng/L		108	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2 FTS	*103*		*50 - 150*
M2-8:2 FTS	*104*		*50 - 150*
13C2 PFDA	*102*		*50 - 150*
13C2 PFDoA	*86*		*50 - 150*
13C2 PFHxA	*103*		*50 - 150*
13C2 PFTeDA	*72*		*50 - 150*
13C2 PFUnA	*99*		*50 - 150*
13C4 PFBA	*107*		*50 - 150*
13C4 PFHpA	*99*		*50 - 150*
13C4 PFOA	*102*		*50 - 150*
13C5 PFNA	*101*		*50 - 150*
13C5 PFPeA	*104*		*50 - 150*
13C8 FOSA	*80*		*50 - 150*
18O2 PFHxS	*93*		*50 - 150*
d3-NMeFOSAA	*115*		*50 - 150*

Method: BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0 (Continued)

Lab Sample ID: LCS 200-208694/2-A
Matrix: Water
Analysis Batch: 208706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208694

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	114		50 - 150
13C4 PFOS	95		50 - 150
13C3 PFBS	94		50 - 150

Lab Sample ID: LCSD 200-208694/3-A
Matrix: Water
Analysis Batch: 208706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 208694

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			80.0	86.1		ng/L		108	70 - 130	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			80.0	83.8		ng/L		105	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)			71.0	81.6		ng/L		115	70 - 130	1	30
Perfluorobutanoic acid (PFBA)			80.0	89.5		ng/L		112	70 - 130	1	30
Perfluorodecanoic acid (PFDA)			80.0	90.6		ng/L		113	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)			80.0	87.8		ng/L		110	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)			76.2	86.4		ng/L		113	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)			80.0	91.3		ng/L		114	70 - 130	3	30
Perfluorohexanesulfonic acid (PFHxS)			73.1	80.1		ng/L		110	70 - 130	2	30
Perfluorohexanoic acid (PFHxA)			80.0	87.8		ng/L		110	70 - 130	1	30
Perfluorononanoic acid (PFNA)			80.0	86.5		ng/L		108	70 - 130	2	30
Perfluorooctanesulfonamide (PFOSA)			80.0	87.3		ng/L		109	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)			74.2	82.4		ng/L		111	70 - 130	0	30
Perfluorooctanoic acid (PFOA)			80.0	90.6		ng/L		113	70 - 130	2	30
Perfluorotetradecanoic acid (PFTeA)			80.0	88.5		ng/L		111	70 - 130	1	30
Perfluorotridecanoic acid (PFTriA)			80.0	80.5		ng/L		101	70 - 130	7	30
Perfluoroundecanoic acid (PFUnA)			80.0	89.4		ng/L		112	70 - 130	4	30
Perfluoropentanoic acid (PFPeA)			80.0	91.6		ng/L		115	70 - 130	0	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)			76.1	88.0		ng/L		116	60 - 140	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)			76.8	89.8		ng/L		117	70 - 130	0	30
Perfluorodecanesulfonic acid (PFDS)			77.2	82.2		ng/L		106	70 - 130	2	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-6:2 FTS	101		50 - 150
M2-8:2 FTS	104		50 - 150
13C2 PFDA	99		50 - 150
13C2 PFDoA	88		50 - 150
13C2 PFHxA	102		50 - 150
13C2 PFTeDA	78		50 - 150

Method: BR-LC-009 r8 - ETB SOP BR-LC-009 REV 8.0 (Continued)

Lab Sample ID: LCSD 200-208694/3-A
Matrix: Water
Analysis Batch: 208706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 208694

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C2 PFUnA	*96*		*50 - 150*
13C4 PFBA	*106*		*50 - 150*
13C4 PFHpA	*99*		*50 - 150*
13C4 PFOA	*100*		*50 - 150*
13C5 PFNA	*100*		*50 - 150*
13C5 PFPeA	*104*		*50 - 150*
13C8 FOSA	*84*		*50 - 150*
18O2 PFHxS	*93*		*50 - 150*
d3-NMeFOSAA	*118*		*50 - 150*
d5-NEtFOSAA	*118*		*50 - 150*
13C4 PFOS	*94*		*50 - 150*
13C3 PFBS	*93*		*50 - 150*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-724936/1-A
Matrix: Water
Analysis Batch: 725567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^1+	0.010	0.0030	mg/L		09/16/24 09:19	09/18/24 15:19	1

Lab Sample ID: LCS 480-724936/2-A
Matrix: Water
Analysis Batch: 725567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724936

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead			0.500	0.511	^1+	mg/L		102	80 - 120		

Lab Sample ID: LCSD 480-724936/3-A
Matrix: Water
Analysis Batch: 725567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 724936

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead			0.500	0.493	^1+	mg/L		99	80 - 120	4	20

Lab Sample ID: LRC 480-725624/18
Matrix: Water
Analysis Batch: 725624

Client Sample ID: Lab Control Sample

Analyte			Spike Added	LRC Result	LRC Qualifier	Unit	D	%Rec	%Rec Limits		
Lead			40.0	39.31	^1+	mg/L		98	90 - 110		

Lab Sample ID: LRC 480-725800/19
Matrix: Water
Analysis Batch: 725800

Client Sample ID: Lab Control Sample

Analyte			Spike Added	LRC Result	LRC Qualifier	Unit	D	%Rec	%Rec Limits		
Lead			40.0	40.48		mg/L		101	90 - 110		

Definitions/Glossary

Client: ROCTerra
Job ID: 480-223310-1
Project/Site: Syracuse China Project

Qualifiers

LCMS

Qualifier	Qualifier Description
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.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

LCMS

Prep Batch: 208694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223310-1	MW-6	Total/NA	Water	3535	
480-223310-2	MW-2	Total/NA	Water	3535	
480-223310-3	MW-10	Total/NA	Water	3535	
480-223310-6	DUP	Total/NA	Water	3535	
MB 200-208694/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-208694/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-208694/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 208706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223310-1	MW-6	Total/NA	Water	BR-LC-009 r8	208694
480-223310-2	MW-2	Total/NA	Water	BR-LC-009 r8	208694
480-223310-3	MW-10	Total/NA	Water	BR-LC-009 r8	208694
480-223310-6	DUP	Total/NA	Water	BR-LC-009 r8	208694
MB 200-208694/1-A	Method Blank	Total/NA	Water	BR-LC-009 r8	208694
LCS 200-208694/2-A	Lab Control Sample	Total/NA	Water	BR-LC-009 r8	208694
LCSD 200-208694/3-A	Lab Control Sample Dup	Total/NA	Water	BR-LC-009 r8	208694

Metals

Prep Batch: 724936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223310-1	MW-6	Total/NA	Water	3005A	
480-223310-2	MW-2	Total/NA	Water	3005A	
480-223310-3	MW-10	Total/NA	Water	3005A	
480-223310-4	MW-5	Total/NA	Water	3005A	
480-223310-5	MW-8	Total/NA	Water	3005A	
MB 480-724936/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-724936/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-724936/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 725567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223310-2	MW-2	Total/NA	Water	6010D	724936
480-223310-3	MW-10	Total/NA	Water	6010D	724936
480-223310-5	MW-8	Total/NA	Water	6010D	724936
MB 480-724936/1-A	Method Blank	Total/NA	Water	6010D	724936
LCS 480-724936/2-A	Lab Control Sample	Total/NA	Water	6010D	724936
LCSD 480-724936/3-A	Lab Control Sample Dup	Total/NA	Water	6010D	724936

Analysis Batch: 725624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223310-4	MW-5	Total/NA	Water	6010D	724936
LRC 480-725624/18	Lab Control Sample		Water	6010D	

Analysis Batch: 725800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223310-1	MW-6	Total/NA	Water	6010D	724936
LRC 480-725800/19	Lab Control Sample		Water	6010D	

Lab Chronicle

Client: ROCTerra
Job ID: 480-223310-1
Project/Site: Syracuse China Project

Client Sample ID: MW-6
Lab Sample ID: 480-223310-1
Date Collected: 09/11/24 12:00
Matrix: Water
Date Received: 09/12/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			208694	MLK	EET BUR	09/17/24 08:21
Total/NA	Analysis	BR-LC-009 r8		1	208706	BWC	EET BUR	09/18/24 01:55
Total/NA	Prep	3005A			724936	EMO	EET BUF	09/16/24 09:19
Total/NA	Analysis	6010D		1	725800	BMB	EET BUF	09/20/24 11:36

Client Sample ID: MW-2
Lab Sample ID: 480-223310-2
Date Collected: 09/11/24 13:00
Matrix: Water
Date Received: 09/12/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			208694	MLK	EET BUR	09/17/24 08:21
Total/NA	Analysis	BR-LC-009 r8		1	208706	BWC	EET BUR	09/18/24 02:03
Total/NA	Prep	3005A			724936	EMO	EET BUF	09/16/24 09:19
Total/NA	Analysis	6010D		1	725567	BMB	EET BUF	09/18/24 15:32

Client Sample ID: MW-10
Lab Sample ID: 480-223310-3
Date Collected: 09/11/24 14:05
Matrix: Water
Date Received: 09/12/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			208694	MLK	EET BUR	09/17/24 08:21
Total/NA	Analysis	BR-LC-009 r8		1	208706	BWC	EET BUR	09/18/24 02:12
Total/NA	Prep	3005A			724936	EMO	EET BUF	09/16/24 09:19
Total/NA	Analysis	6010D		1	725567	BMB	EET BUF	09/18/24 15:34

Client Sample ID: MW-5
Lab Sample ID: 480-223310-4
Date Collected: 09/11/24 15:15
Matrix: Water
Date Received: 09/12/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			724936	EMO	EET BUF	09/16/24 09:19
Total/NA	Analysis	6010D		1	725624	BMB	EET BUF	09/19/24 11:55

Client Sample ID: MW-8
Lab Sample ID: 480-223310-5
Date Collected: 09/11/24 16:30
Matrix: Water
Date Received: 09/12/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			724936	EMO	EET BUF	09/16/24 09:19
Total/NA	Analysis	6010D		1	725567	BMB	EET BUF	09/18/24 15:37

Lab Chronicle

Client: ROCTerra
Job ID: 480-223310-1
Project/Site: Syracuse China Project

Client Sample ID: DUP
Date Collected: 09/11/24 08:00
Date Received: 09/12/24 09:30

Lab Sample ID: 480-223310-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			208694	MLK	EET BUR	09/17/24 08:21
Total/NA	Analysis	BR-LC-009 r8		1	208706	BWC	EET BUR	09/18/24 02:20

Laboratory References:

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

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: ROCTerra
Job ID: 480-223310-1
Project/Site: Syracuse China Project

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

Laboratory: Eurofins Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-26
Connecticut	State	PH-0751	09-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-19-25
Florida	NELAP	E87467	06-30-25
Minnesota	NELAP	050-999-436	12-31-24
New Hampshire	NELAP	2006	12-18-24
New Jersey	NELAP	VT972	06-30-25
New York	NELAP	10391	03-31-25
Pennsylvania	NELAP	68-00489	04-30-25
Rhode Island	State	LAO00298	12-31-24
US Fish & Wildlife	US Federal Programs	058448	08-01-25
USDA	US Federal Programs	P330-17-00272	12-19-26
Vermont	State	VT4000	02-10-25
Virginia	NELAP	460209	12-14-24
Wisconsin	State	399140830	03-31-25

Address: _____

Environment Testing
TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: A. Wirth	Site Contact:	Date: 9/11/24	COC No:
Company Name: Rocterra	Tel/Email: alex@rocterra.org	Lab Contact: B. Fischer	Carrier:	1 of 1 COCs
Address: 7 Ontario View St.	Analysis Turnaround Time			Sampler: A. Wirth
City/State/Zip: Rochester NY 14617	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 585 698 6845	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day — standard			Lab Sampling:
Project Name: Syracuse China				Job / SDG No.:
Site:				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PFAS via 537	Lead via 6010B	Sample Specific Notes:
MW-6	9/11/24	1200	G	W	3			X	X	
MW-2		1300			3			X	X	
MW-10		1405			3			X	X	
MW-5		1515			1				X	
MW-8		1630			1				X	
DUP	9/11/24	0800	G	W	2			X		

RE 9-11-24

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

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

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

480-223310 Chain of Custody

Special Instructions/QC Requirements & Comments:

3.0 2.7 ICE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Rocterra	Date/Time: 9/11/24 1705	Received by:	Company: ESSYR	Date/Time: 9/11/24 1705
Relinquished by: R. English	Company: SYR 9-11-24	Date/Time: 1900	Received by: TAB	Company: 9-12-24 930	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

9/26/2024
10:26:05 AM

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

480-223310 Chain of Custody

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J		COC No: 480-89384.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-223310-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 10/9/2024	Analysis Requested		Preservation Codes: -
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			
Email	WO #:			
Project Name: Syracuse China Project	Project #: 48028033			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_IVWT 21 Cmpnd list	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-6 (480-223310-1)	9/11/24	12:00 Eastern	G	Water			X	2	
MW-2 (480-223310-2)	9/11/24	13:00 Eastern	G	Water			X	2	
MW-10 (480-223310-3)	9/11/24	14:05 Eastern	G	Water			X	2	
DUP (480-223310-6)	9/11/24	08.00 Eastern	G	Water			X	2	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC

Possible Hazard Identification: Unconfirmed	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) Primary Deliverable Rank 4	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	9/13/24 1600	ET	[signature]	9/14/24 0930	ET Buf
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver 05/06/2024


SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE
BUFFALO, NY 142282223
UNITED STATES US

ACTWGT: 18.60 LB
CAD: 0759273/CAFE3808
DIMS: 15x12x11 IN
BILL SENDER

TO SAMPLE RECEIPT
EUROFINS BURLINGTON
530 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 054036650
(802) 660-1990
REF: SOUTH BURLINGTON

FedEx Express

TRK# 0201 7463 0658 4585

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV

RT 876 1 12:00 C
4585
09.14

FZ

Login Sample Receipt Checklist

Client: ROCTerra

Job Number: 480-223310-1

Login Number: 223310
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

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

Login Sample Receipt Checklist

Client: ROCTerra

Job Number: 480-223310-1

Login Number: 223310
List Number: 2
Creator: Reynolds, Jamie K

List Source: Eurofins Burlington
List Creation: 09/14/24 04:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	2533835
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	