

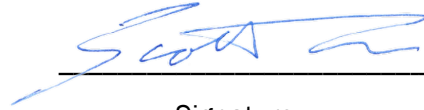
CERTIFICATION

Queensbury Landfill, Queensbury, NY

I, Scott Tucker, certify that all activities detailed in this Field Activity Summary Report were conducted as described and in full accordance with the approved workplan and any DEC approved modifications, unless otherwise noted herein.

Scott Tucker
Regional Coordinator

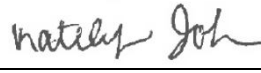
7/23/2020
Date


Signature

Reviewed/Accepted By:

Katelyn John
Division of Materials Management

7/27/20
Date


Signature

New York State Department of Environmental Conservation
Division of Materials Management
Inactive Landfill Initiative
Field Activities Summary

Landfill Name: Queensbury Landfill

Region: 5

Database ID: 5202

Date of Field Activities: 1/21-24/2020

Summary of Field Activities

Field activities were conducted according to the Hydrogeologic Investigation at the Queensbury Landfill NYSDEC Region 5 – Warren County Queensbury, New York Site Specific Work Plan with the following deviation: a seep sample was not collected due to frozen and potentially unsafe conditions. A total of five existing monitoring wells were sampled and development was not needed. Field activities were performed in accordance with the Field Activities Plan (FAP) with the following deviations: existing bailers were not in the water and tubing was HPDE with Waterra brand foot valves which are PFAS free. An equipment blank was additionally collected from the existing Waterra tubing (5-WAR-001-003-03). Approximate locations of monitoring wells are shown on Figure 1. Groundwater flow direction is shown on Figure 2.

Monitoring Wells Installed

Monitoring Well ID	Northing	Easting	Elevation	Well Development Date	Comments
N/A	N/A	N/A	N/A	N/A	N/A

Monitoring Wells Sampled

Monitoring Well ID	Date	Sample Collected (yes/no)	Comments
MW-1	1/22/2020	Yes	Field Sample ID: 5-WAR-001-002-03
MW-2	1/23/2020	Yes	Field Sample ID: 5-WAR-001-003-04; Field Duplicate Sample ID: 5-WAR-001-003-05
MW-3	1/23/2020	Yes	Field Sample ID: 5-WAR-001-003-07
MW-4	1/24/2020	Yes	Field Sample ID: 5-WAR-001-004-01
MW-5	1/21/2020	Yes	Field Sample ID: 5-WAR-001-001-01

Other Samples

Sample Location	Sample Type	Date	Comments
N/A	N/A	N/A	N/A

Figures

Figure 1	Sample Locations
Figure 2	Groundwater Flow Direction and Emergent Contaminants Results Summary

Attachments

Attachment 1	Queensbury Landfill Work Plan
Attachment 2	Boring and Well Construction Logs
Attachment 3	Sampling Logs
Attachment 4	Analytical Laboratory Level II Data Deliverable



LEGEND

- MONITORING WELL
- WATER FEATURE AND FLOW
- ELEVATION CONTOURS
- APPROXIMATE LANDFILL EXTENT
- PARCEL BOUNDARY

- Notes**
- 1. PARCELS OBTAINED FROM WARREN COUNTY GIS
 - 2. CONTOURS PROVIDED BY NYS CLEARING HOUSE
 - 3. LOCATIONS ARE APPROXIMATED FROM GPS DATA COLLECTED IN THE FIELD



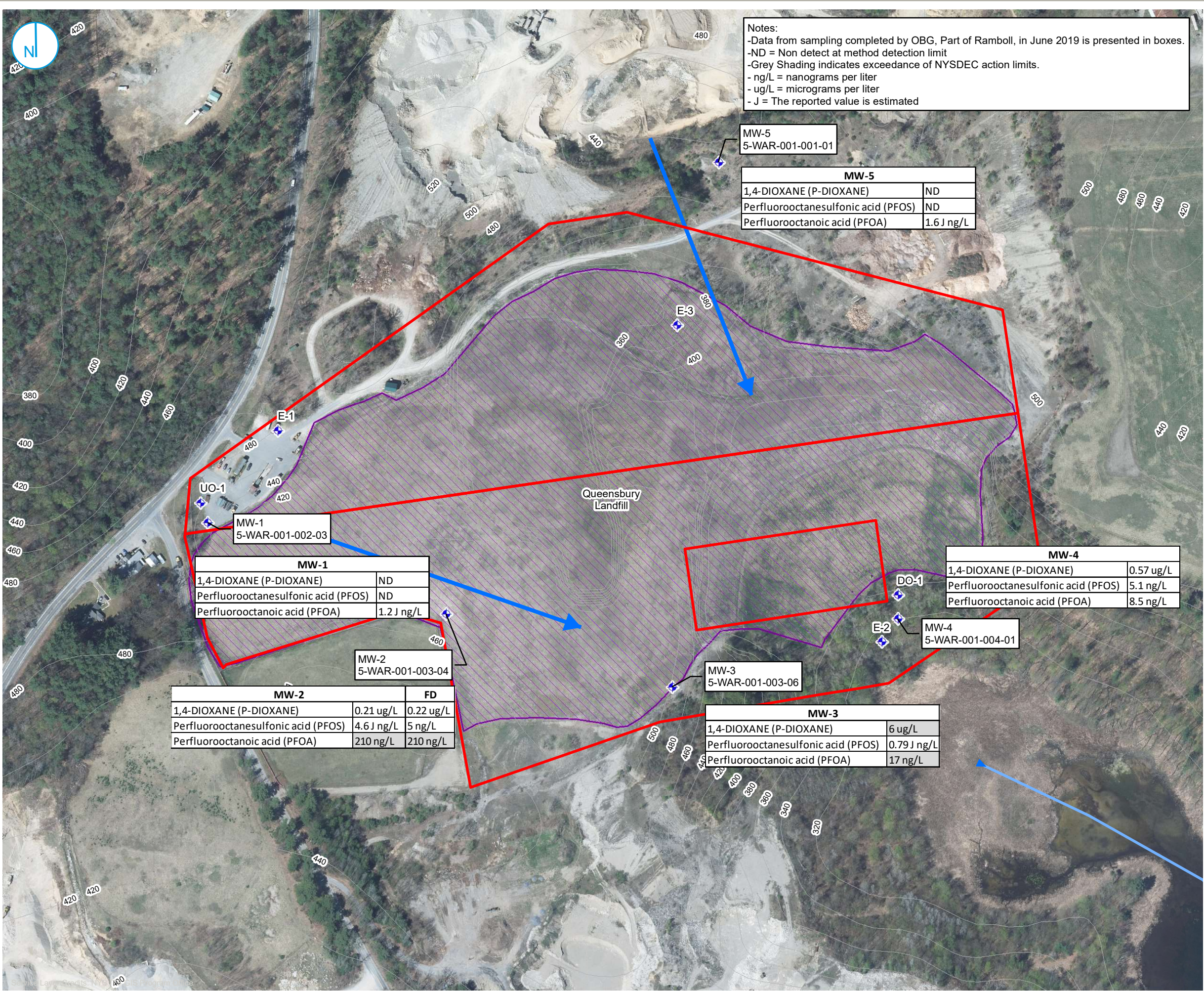
SAMPLE LOCATIONS

NEW YORK STATE DEPARTMENT OF CONSERVATION
QUEENSBURY LANDFILL
QUEENSBURY, NEW YORK
REGION 5 WARREN COUNTY

FIGURE 01

O'BRIEN & GERE ENGINEERS, INC.
A RAMBOLL COMPANY





LEGEND

- MONITORING WELL
- WATER FEATURE AND FLOW
- ELEVATION CONTOURS
- PRESUMED GROUNDWATER FLOW
- APPROXIMATE LANDFILL EXTENT
- PARCEL BOUNDARY

Notes

1. PARCELS OBTAINED FROM WARREN COUNTY GIS
2. CONTOURS PROVIDED BY NYS CLEARING HOUSE
3. LOCATIONS ARE APPROXIMATED FROM GPS DATA COLLECTED IN THE FIELD

0 125 250 Feet

GROUNDWATER FLOW DIRECTION AND EMERGENT CONTAMINANTS RESULTS SUMMARY

NEW YORK STATE DEPARTMENT OF CONSERVATION
QUEENSBURY LANDFILL
QUEENSBURY, NEW YORK
REGION 5 WARREN COUNTY

FIGURE 02

O'BRIEN & GERE ENGINEERS, INC.
A RAMBOLL COMPANY



ATTACHMENT 1

QUEENSBURY LANDFILL SITE SPECIFIC WORK PLAN

Site-Specific Work Plan for:

**HYDROGEOLOGIC INVESTIGATION
AT THE
QUEENSBURY LANDFILL
NYSDEC REGION 5 - WARREN COUNTY
QUEENSBURY, NEW YORK**

Prepared For:



**Department of
Environmental
Conservation**

New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7012

Prepared By:



333 W. Washington St.
Syracuse, New York 13202
Phone: (315) 956-6100
Fax: (315) 463-7554

November 2019

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Site Specific Work Plan For Hydrogeologic Investigation At Queensbury Landfill Site

1.0 PROJECT BACKGROUND

This hydrogeologic investigation is part of the New York State Department of Environmental Conservation's (NYSDEC's) Inactive Landfills Initiative. The objective of the Initiative is to assess inactive landfills in New York State for potential impacts to drinking water sources and other potential receptors.

2.0 PROJECT OBJECTIVES

The objective of this hydrogeological investigation is to provide an initial assessment of the potential for impacts from emerging contaminants to groundwater in the immediate vicinity of the Queensbury Landfill (DER #557005) (**Figure 1**). This objective will be accomplished by sampling five groundwater monitoring wells and one seep sample (if present) and analyzing the samples for a suite of target organic and inorganic contaminants. The sample data will be evaluated to assess whether groundwater quality has been impacted by emerging contaminants by the landfill operations.

3.0 SITE SETTING

The landfill is located at the intersection of Ridge Road and Jenkinsville Road in the Town of Queensbury and is currently used as the site of the Town of Queensbury transfer station. The landfill is located in a former gravel pit and reportedly began to accept primarily municipal solid waste and construction and demolition waste in the late 1940s, continuing operation until December 1993. The landfill was placed on the inactive hazardous waste registry in 1983 due to allegations of disposal of PCB's and paint sludge, and after Phase II investigations was delisted in August 1992. The landfill closure was completed in 1995 with a geomembrane cap and gas venting system.

Ciba - Geigy (Hercules) (Database ID 5038) secure hazardous waste landfill is located to the southwest. Finch Paper Queensbury Landfill (Database ID 5073) closed paper sludge landfill is located to the east. The closed McLaughlin C&D Landfill (Database ID 5150) is located to the southwest on the opposite side of Jenkinsville Rd. The closed Fort Ann LF (Database ID 5076) is located approximately 2,500 feet east of the Queensbury Landfill. There are also sand/gravel mining operations that occur in the area around the site.

According to surficial geology map of New York State (Hudson Mohawk Sheet) the landfill is underlain by kame deposits. The site is located over geologic deposits consistent with criteria for designation as a principal aquifer.

3.1 GROUNDWATER AND SURFACE WATER OCCURRENCE AND FLOW

Based on the *Town of Queensbury Landfill, Ridge Road, 2018 Annual Post-Closure Monitoring Report* by URS Consultants, Inc. dated November 9, 2018 (URS Report), groundwater flow is to the east/southeast toward Mud Pond, which is located approximately 200 feet southeast of the landfill and flows southeast via an unnamed tributary that enters Halfway Creek. Depth to groundwater ranged from 8 ft to 164 ft.

4.0 HYDROGEOLOGICAL INVESTIGATION AND SCOPE OF WORK

Field activities will be conducted in accordance with the Quality Assurance Project Plan (QAPP), Field Activities Plan (FAP), and Health and Safety Plan (HASP), which have been prepared and approved specifically for the NYSDEC Inactive Landfill Initiative program.

The specific field procedures to be used during this investigation are described in the FAP. That document describes drilling methods, well installation and sampling methods, and handling of investigation-derived waste. The QAPP describes the analytical procedures to be used by the laboratory in analyzing the groundwater samples.

4.1 GROUNDWATER AND SEEP SAMPLING

Consistent with post-closure monitoring, the following five monitoring wells will be sampled to evaluate groundwater quality (Figure 1, Attachment 1):

- MW-1
- MW-2
- MW-3
- MW-4
- MW-5

If there is existing tubing or equipment in the wells, and construction of that equipment can't be verified as acceptable per the FAP, it will be removed from the wells and the wells will be developed prior to groundwater sampling as outlined in the FAP.

Samples will be collected from each specified well location and analyzed as described in the FAP. If a well yield is insufficient to support low flow sampling, the sampling will be completed using another acceptable technique as outlined in the FAP. The wells will be purged prior to sampling, and all sampling equipment will be dedicated to that sampling location or will be decontaminated between sampling locations using the methods provided in the FAP. According to URS Report, MW-3 has a bend in the PVC riser pipe and can only be sampled with a Waterra hydrolift pump.

One seep sample (from historically sampled 2018 Annual Post-Closure Monitoring Report location SW-1) will be collected from Mud Pond. The samples will be collected in accordance with the FAP.

Samples will be analyzed for modified baseline VOCs, polycyclic aromatic hydrocarbons, 1,4-dioxane, perfluorinated compounds, baseline leachate indicators, and modified baseline metals. A complete list of analytical parameters is provided in Table 1.

5.0 INVESTIGATION REPORTING

Groundwater sampling logs, analytical data, and a site work summary will be provided at the completion of field activities for the site.

TABLE 1 – ANALYTICAL PARAMETERS

Parameter	Method	Parameter	Method
Leachate Indicators		Inorganics	
Ammonia	350.1 / SM20 4500NH3 B/D	Aluminum	SW6010C
Chemical Oxygen Demand	410.4	Antimony	SW6010C
Total Organic Carbon	EPA 9060 / SM20 5310B/C	Arsenic	SW6010C
Total Dissolved Solids	SM20 2540C	Barium	SW6010C
Sulfate	300	Boron	SW6010C
Alkalinity	SM20 2320B	Beryllium	SW6010C
Chloride	300	Cadmium	SW6010C
Bromide	300	Calcium	SW6010C
Total hardness as CaCO3	SM20 2340C	Chromium	SW6010C
		Cobalt	SW6010C
PAHs + 1,4-Dioxane		Copper	SW6010C
Acenaphthene	8270D SIM	Iron	SW6010C
Acenaphthylene	8270D SIM	Lead	SW6010C
Anthracene	8270D SIM	Magnesium	SW6010C
Benzo(a)anthracene	8270D SIM	Manganese	SW6010C
Benzo(a)pyrene	8270D SIM	Nickel	SW6010C
Benzo(b)fluoranthene	8270D SIM	Potassium	SW6010C
Benzo(g,h,i)perylene	8270D SIM	Selenium	SW6010C
Benzo(k)fluoranthene	8270D SIM	Silver	SW6010C
Chrysene	8270D SIM	Sodium	SW6010C
Dibenzo(a,h)anthracene	8270D SIM	Thallium	SW6010C
Fluoranthene	8270D SIM	Vanadium	SW6010C
Fluorene	8270D SIM	Zinc	SW6010C
Indeno(1,2,3-cd)pyrene	8270D SIM	Mercury	SW7470A
Naphthalene	8270D SIM	Mercury	E1631
Phenanthrene	8270D SIM	Dissolved Mercury	E1631
Pyrene	8270D SIM		
1-4-Dioxane	8270D SIM		

**TABLE 1 – ANALYTICAL PARAMETERS
(Continued)**

Parameter	Method
Perfluorobutanoic acid (PFBA)	Modified 537
Perfluoropentanoic acid (PFPeA)	Modified 537
Perfluorohexanoic acid (PFHxA)	Modified 537
Perfluoroheptanoic acid (PFHpA)	Modified 537
Perfluorooctanoic acid (PFOA)	Modified 537
Perfluorononanoic acid (PFNA)	Modified 537
Perfluorodecanoic acid (PFDA)	Modified 537
Perfluoroundecanoic acid (PFUnA)	Modified 537
Perfluorododecanoic acid (PFDoA)	Modified 537
Perfluorotridecanoic Acid (PFTriA)	Modified 537
Perfluorotetradecanoic acid (PFTeA)	Modified 537
Perfluorobutanesulfonic acid (PFBS)	Modified 537
Perfluorohexanesulfonic acid (PFHxS)	Modified 537
Perfluoroheptanesulfonic Acid (PFHpS)	Modified 537
Perfluorooctanesulfonic acid (PFOS)	Modified 537
Perfluorodecanesulfonic acid (PFDS)	Modified 537
Perfluorooctane Sulfonamide (FOSA)	Modified 537
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	Modified 537
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	Modified 537
6:2 Fluorotelomer sulfonate (6:2FTS)	Modified 537
8:2 Fluorotelomer sulfonate (8:2FTS)	Modified 537

FIGURE 1

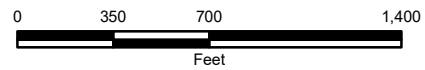


LEGEND

- MONITORING WELL LOCATION (APPROXIMATE, GEOREFERENCED FROM URS CONSULTANTS FIGURE 4-3)
- WATER FEATURE AND
- APPROXIMATE LANDFILL EXTENT

NEW YORK STATE
DEPARTMENT OF CONSERVATION
QUEENSBURY LANDFILL
QUEENSBURY, NEW YORK
REGION 5: WARREN COUNTY

SITE PLAN



8653.65982
OCTOBER 2019

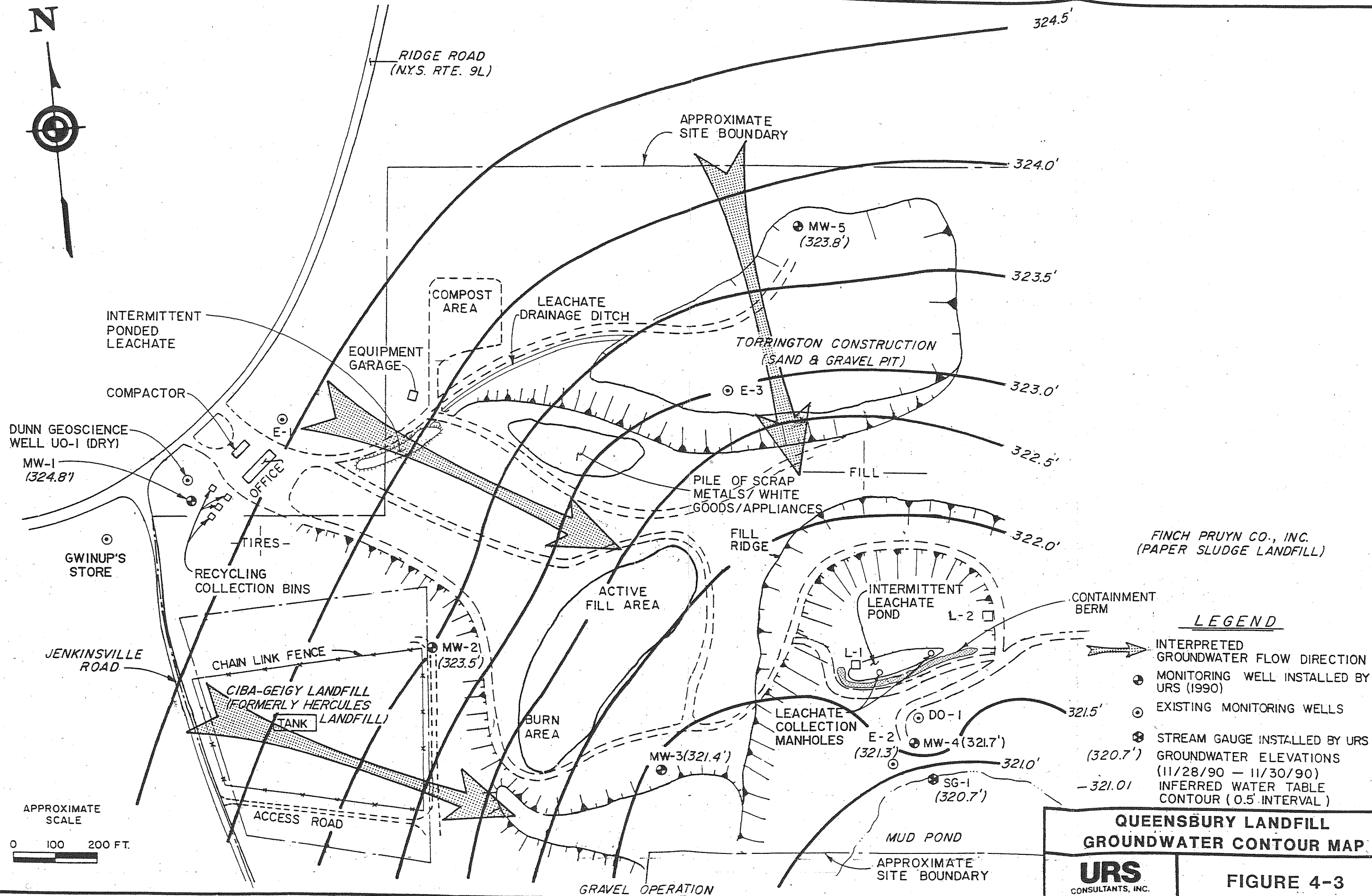


O'BRIEN & GERE ENGINEERS, INC.



ATTACHMENT 1

**QUEENSBURY LANDFILL, GROUNDWATER CONTOUR MAP (FIGURE 4-3) BY
URS CONSULTANTS, INC.**



**QUEENSBURY LANDFILL
GROUNDWATER CONTOUR MAP**

URS
CONSULTANTS, INC.

FIGURE 4-3



ATTACHMENT 2

BORING AND WELL CONSTRUCTION LOGS

URS CONSULTANTS, Inc.

TEST BORING LOG

BORING NO. **MW-1**

PROJECT: **QUEENSBURY LANDFILL PHASE II INVESTIGATION**

SHEET NO. **1** OF **3**

CLIENT: **NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

JOB NO.: **35231.05**

BORING CONTRACTOR: **CONSTRUCTION DRILLING SERVICES (CDS)**

BORING LOCATION: **UPGRADIENT**

GROUND WATER:

CAS ~~SAMP~~ CORE ~~TUBE~~

GROUND ELEVATION: **482.59 FT.**

DATE TIME LEV TYPE TYPE /

DATE STARTED: **10-11-90**

10/16 11:00AM 157' GRD. DRILLER STAGE DIA /

DATE FINISHED: **10-17-90**

10/26 12:58PM 160.64 Top of Rise WT /

DRILLER: **JOHN COYLE, DICK MILLER**

11-2 4:10PM 160.68 T.O.P of Rise FALL /

GEOLOGIST: **SCOTT SWANSON**

11-8 3:46PM 160.74 T.O.P of Rise * POCKET PENETROMETER READING

REVIEWED BY:

DEPTH FT	STRATA	SAMPLE				DESCRIPTION				REMARKS
		NO.	TYPE	BLOWS PER 5"	RECOVERY RCD %	SOIL	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	WATER	
0								10-11-90 2:00PM COMMENCE DRILLING		
10								COBBLES		DUSTY DRILLING
20						GRAY WHITE		GRAVELS, ANGULAR GROUND UP COBBLES 3/16"-1/2"		
30						GRAY		BOULDER AT 30'		VERY DUSTY DISCHARGE
40						GRAY Brown		SANDY GRAVELS @ 35' fine - coarse sand brown COBBLES		
50										
60										10-12-90 START @ 61'
70						Brown		SAND @ 67' coarse - fine	SW	MOIST

COMMENTS **TUBEX & AIR ROTARY DRILLING METHOD - SAMPLES OR CUTTINGS**

DESCRIBED AS DISCHARGED BY AIR AT SURFACE

TUBEX ADVANCES CASING WHILE DRILLING

PROJECT NO.

BORING NO.

35231.05

MW-1

URS CONSULTANTS, Inc.

TEST BORING LOG
BORING NO.

MW-1

PROJECT: QUEENSBURY LANDFILL PHASE II

SHEET NO. 2 OF 3

CLIENT: NEW YORK STATE DEPT. OF ENVIRONMENTAL

JOB NO.: 35231.05

DEPTH FT	STRATA	SAMPLE				CONSERVATION DESCRIPTION				REMARKS
		NO.	TYPE	BLOWS PER 6"	RECOVERY RQD %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	CLASS USCS	
	0.0					BRN		SAND AND COBBLES		
	0.0					WH. GRAY				
	0.0					BRN.		SAND fine-med. @ 76'	SP	MOIST LESS DUST IN DISCHARGE
80										
						BRN.		SANDY GRAVELS @ 86' L COBBLES		
90										
								COARSE SANDS, SOME FINE GRAVELS	94' SP	
						MULTI-COLOR		GRAVEL SIZE 97' LARGER MULTI-COLOR GRAVELS		DUST INCREASE DRY COBBLE ZONE
100										
						BRN.		@ 110' fine moist sand 2' of fine becoming coarser	SP	
								AT 112' CASING NO LONGER BEING ADVANCED - JOINT SNAPPED DOWNHOLE, PULLED ALL CASING & DRILL STRING AND REDRILL ON 10-15-90		
110								@ 116' DUSTY AGAIN, FINE GRAVELS		
								SANDY GRAVELS 1/4" - 3/8" ROUNDED	GP	SLIGHTLY MOIST
120										
130										
140										
150										

COMMENTS: TUBEX & AIR ROTARY DRILLING METHOD - TRUCK
MOUNTED TH-60 FINGERSOLL-RAND RIG

PROJECT NO.
BORING NO.

35231.05
MW-1

URS CONSULTANTS, Inc.

TEST BORING LOG

BORING NO.

MW-1

PROJECT: QUEESBURY LAND FILL PHASE II INVESTIGATION

SHEET NO. 3 OF 3

CLIENT: NYSDEC

JOB NO.: 35231.05

DEPTH FT	STRATA	SAMPLE				DESCRIPTION				REMARKS
		NO.	TYPE	BLOWS PER 6"	RECOVERY RQD %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	CLASS USCS	
160						BN.		SANDY GRAVELS	GP	
170						BRN.		V. COARSE SAND	SP	WATER MIST OF WATER STEAM AT DISCHARGE TOOK GRAIN SIZE SAMPLE
180								- 171' DRILL AHEAD ON 10-16-90		
								TOTAL DEPTH 180' DRILLER MEASURES WATER @ 157' GRD.		

COMMENTS

TUBEX & AIR ROTARY DRILLING METHOD

PROJECT NO.

BORING NO.

35231.05

MW-1

URS CONSULTANTS, Inc.

TEST BORING LOG

BORING NO.

MW-2

PROJECT: QUEENSBURY LANDFILL PHASE II INVESTIGATION

SHEET NO. 1 OF 2

CLIENT: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JOB NO.: 35231.05

BORING CONTRACTOR: CONSTRUCTION DRILLING SERVICES (CDS)

BORING LOCATION: DOWNGRADIENT OF CIBA-GEIGY FACILITY

GROUND WATER:

CAS: SAMP CORE TUBE

GROUND ELEVATION: 437.22

DATE TIME LEV TYPE TYPE

DATE STARTED: 10-30-90

10-31 11:44AM 115.32 GROUND DIA

DATE FINISHED: 11-1-90

10-31 1:00 113.5 GROUND WT

DRILLER: JOHN COYLE

11-1 10:00AM 113.6 GROUND FALL

GEOLOGIST: SCOTT SWANSON

11-2 3:30PM 116.08 Top of Riser

REVIEWED BY:

DEPTH FT	STRATA	SAMPLE				DESCRIPTION				REMARKS
		NO.	TYPE	BLOWS PER 5"	RECOVERY RQD %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	CLASS USED	
0						LT. B2N		MED - CS SAND SOME 1/4" PEBBLES THROUGHOUT	SP	8:37AM COMMENCE DRILLING DRY - SL. DAMP.
10										
20										
30										
40										
50						BROWN		FINE - MED SAND NO PEBBLES	SP	MOIST, NO DUST
60						GRAY- BRN		@ 62' MED - CS SAND GRAY COLOR 62-67' yellow-brn fn-md sand		HELPER SAMPLES ODORS, H ₂ S=0 DEW POINT & CUTTING
70						GRAY yellow-brown		fine-md sand, some pebbles	SP	DUSTY DRY MOIST

COMMENTS

TUBEX / AIR ROTARY DRILLING METHOD

RIG: TRUCK-MOUNTED / QUEENSBURY-LAND TH-60

PROJECT NO.

35231.05

BORING NO.

MW-2

MW-2

SHEET NO. 2 OF 2

JOB NO. : 35231.05

COMMENTS

35231.05
MW-2

MW-3A

SHEET NO. 2 OF 3

JOB NO. : 35231.05

DEPTH FT	STRATA	SAMPLE				CONSERVATION DESCRIPTION				REMARKS
		NO.	TYPE	BLOWS PER 6"	RECOVERY RQD %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	CLASS USCS	
								FINE GRAVELS	GP	DRY $H_{nu}=0$ DOWNHOLE MOIST LEL 0%
						BRN.		FN-MED SAND	SP	
80										NO SPLIT SPOOLS
						BRN.		FINE-COARSE SAND FEW ROUNDED PEBBLES PULLED UP CASING AND WENT TO LUNCH - BLEW OUT BOTTOM TO CHECK FOR ANY ACCUMULATING WATER - NONE	SW	
90										@ 81 VERY DUSTY MOIST AGAIN
						L.T. GRAY		COBBLE		
						BRN.		FINE SAND ALTERNATING FINE-COARSE	SW- SP	DRY, DUSTY MOIST
100										
						MULTI- COLORED		COARSE GRAVEL COBBLES		
110										
						BRN.		ROUNDED PEBBLES TO COARSE SAND		DRY DUSTY
120						GRY.		COBBLES AT 121' NO AIR RETURN VACUUM, CHUTE FLAT		
130								- 131' AIR CIRCULATING AGAIN COBBLES		V. DUSTY
140										
150						BRN.		FINE SAND, FEW GRAVELS FINE-MED SAND	SP	V. MOIST MOIST

COMMENTS

35231.05

MW-3A

URS CONSULTANTS, Inc.

TEST BORING LOG
BORING NO.

MW-3A

PROJECT: QUEESBURY LANDFILL PHASE II INVESTIGATION

SHEET NO. 3 OF 3

CLIENT: NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION

JOB NO.: 35231.05

DEPTH FT	STRATA	SAMPLE				DESCRIPTION				REMARKS
		NO.	TYPE	BLOWS PER 6"	RECOVERY RQD %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	CLASS USCS	
						LT. BWN.		FINE-MEDIUM SAND ↓	SP	MCIST
160			NO SPLIT SPOONS							
170								10-19-90 @ 165' CASING SNAPPED AT JOINT AGAIN. PULLED CASING UP RE-DRILLED to 81 FT.		
								10-20-90 CONTINUED RE DRILLING TO 145 FT. CASING BROKE AGAIN * ABANDONED LOCATION TO BE RE-DRILLED AT A LATER DATE.		

COMMENTS

PROJECT NO.
BORING NO.35231.05
MW-3A

URS CONSULTANTS, Inc.

TEST BORING LOG

BORING NO.

MW-3

PROJECT: QUEENSBURY LANDFILL PHASE II INVESTIGATION

SHEET NO. 1 OF 3

CLIENT: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JOB NO.: 35231.05

BORING CONTRACTOR: CONSTRUCTION DRILLING SERVICES (CDS)

BORING LOCATION:

GROUND WATER:

CAS.

SAMP

CORE

TUBE

GROUND ELEVATION: 483.18

DATE

TIME

LEV

TYPE

TYPE

DATE STARTED: 11-5-90

11-6

4:15 PM

162'

GROUND

DIA.

DATE FINISHED: 11-8-90

11-9

8:30 AM

164.57

T-05 Riser

WT.

DRILLER: DICK MILLER

FALL

GEOLOGIST: SCOTT SWANSON

* POCKET PENETROMETER READING

REVIEWED BY:

DEPTH FT	STRATA	SAMPLE				DESCRIPTION				REMARKS
		NO.	TYPE	BLOWS PER 6"	RECOVERY REC %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	TEST NO.	
								SEE MW-3 A LOG FOR DETAILED DESCRIPTION		11:40AM START DRILLING
10			NO SPLIT					COBBLE		
20			SPOONS					ZONE		
30										
40										
50								FINE-MED SAND	SP	
60										
70										

COMMENTS

TUBEX AIR-ROTARY DRILLING METHOD

RIG: TRUCK MOUNT ENGERSOLL-RAND TH-60

PROJECT NO.

35231.05

BORING NO.

MW-3

URS CONSULTANTS, Inc.

TEST BORING LOG

BORING NO.

MW-3

PROJECT: QUEENSBURY LANDFILL PHASE II INVESTIGATION

SHEET NO. 3 OF 3

CLIENT: NY SDEC

JOB NO. : 35231.05

[illegible]

COMMENTS

PROJECT NO.

35231.05

BORING NO.

MW-3

3205A

DRILLING SUMMARY

Geologist:

Scott Swanson

Drilling Company:

C.D.S.

Driller:

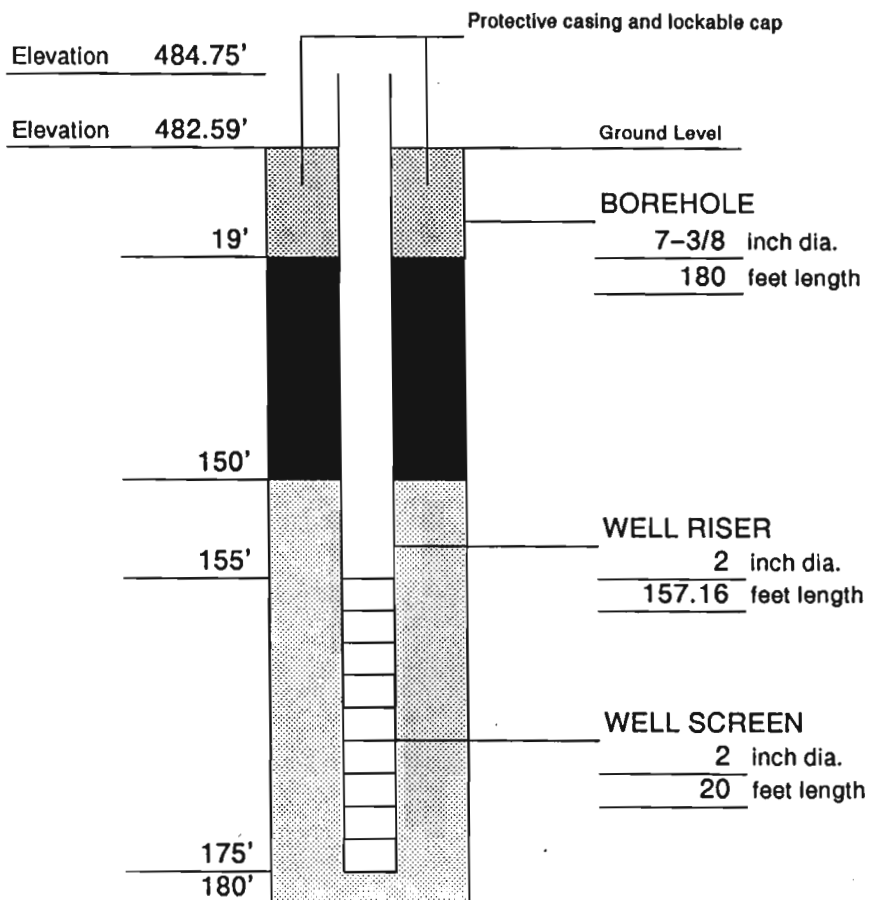
John Coyle

Date:

10/11/90-10/17/90

GEOLOGIC LOG

depth(ft.)	lithology
0-35	cobbles, boulders
35-67	gravelly, sandy cobbles
67-72	fine-coarse sand
72-76	sandy cobbles
76-86	fine-medium sand
86-94	gravelly, sandy cobbles
94-97	coarse sand
110-116	fine sand
116-160	sandy gravel
160-180	very coarse, multi-colored sands

WELL DESIGND
E
P
T
H**CASING MATERIAL**

Surface: Steel

Monitor: PVC

SCREEN MATERIAL

Type: PVC

Slot Size: 0.010 inch

SEAL MATERIALSeal #1 Type: Benseal Slurry
Setting: 19-150'Seal #2 Type: Cement Grout
Setting: 0-19'**FILTER MATERIAL**

Type: #1 Silica Sand

Setting: 150-175'

ROCK CORING

Cored Interval:

Core Diameter:

Reamed Diameter:

LEGEND

	Cement/Bentonite Grout
	Bentonite Seal
	Silica Sandpack

Client: NYSDEC Phase 2

Project: Queensbury Landfill

Project Number: 35231.05

URS
Consultants Inc.Monitoring Well
Constuction Details

Well Number: MW-1

DRILLING SUMMARY

Geologist:

Scott Swanson

Drilling Company:

C.D.S.

Driller:

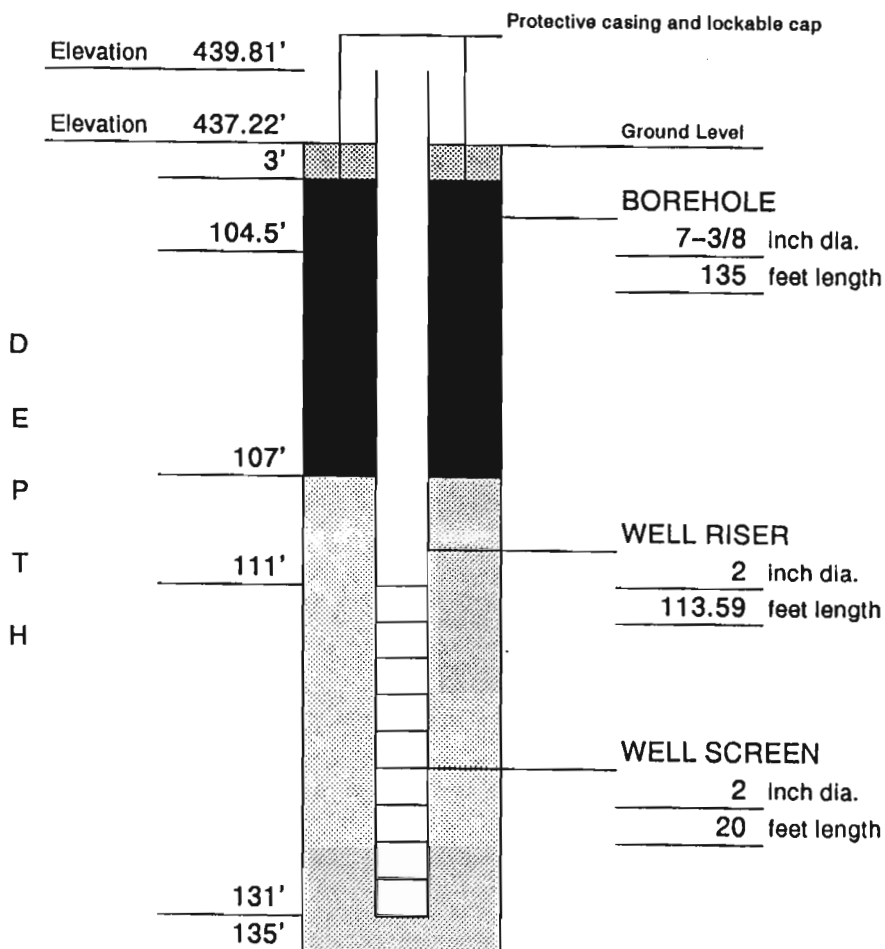
John Coyle

Date:

10/30/90-11/1/90

GEOLOGIC LOG

depth(ft.)	lithology
0-40	gravelly, medium-coarse sand
40-67	fine-medium sand
67-69	boulder
69-73	fine-coarse sand
73-74	cobbles
74-114	fine sand
114-118	silty, sandy, gravel
118-135	gray-black silty sand

WELL DESIGN**CASING MATERIAL**

Surface: Steel

Monitor: PVC

SCREEN MATERIAL

Type: PVC

Slot Size: 0.010 inch

SEAL MATERIAL

Seal #1 Type Bentonite Pellets

Setting: 104.5-107'

Seal #2 Type Benseal Slurry

Setting: 3-104.5'

Seal #3 Type Portland Cement

Setting: 0-3'

FILTER MATERIAL

Type: #1 Silica Sand

Setting: 107-135'

ROCK CORING

Cored Interval:

Core Diameter:

Reamed Diameter:

LEGEND

	Cement/Bentonite Grout
	Bentonite Seal
	Silica Sandpack

Client: NYSDEC Phase 2

Project: Queensbury Landfill

Project Number: 35231.05

URS
Consultants Inc.Monitoring Well
Constuction Details

Well Number: MW-2

DRILLING SUMMARY Geologist: Scott Swanson Drilling Company: C.D.S. Driller: Dick Miller Date: 11/5/90-11/8/90		Protective casing and lockable cap Elevation 485.67' Elevation 483.18' Ground Level 24' 155' 160' 180' 182' BOREHOLE 7-3/8 inch dia. 182 feet length WELL RISER 2 inch dia. 162.49 feet length WELL SCREEN 2 inch dia. 20 feet length																							
GEOLOGIC LOG <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">depth(ft.)</th> <th style="width: 80%;">lithology</th> </tr> </thead> <tbody> <tr><td>0-16</td><td>cobbles</td></tr> <tr><td>16-42</td><td>gravelly, sandy cobbles</td></tr> <tr><td>42-70</td><td>fine-medium sand</td></tr> <tr><td>70-73</td><td>fine gravel</td></tr> <tr><td>73-91</td><td>fine-coarse sand</td></tr> <tr><td>91-94</td><td>cobbles</td></tr> <tr><td>94-101</td><td>fine sand</td></tr> <tr><td>101-145</td><td>sandy cobbles, boulder zone</td></tr> <tr><td>145-165</td><td>fine-medium sand</td></tr> <tr><td>165-182</td><td>fine-medium sand with a little coarse sand</td></tr> </tbody> </table>				depth(ft.)	lithology	0-16	cobbles	16-42	gravelly, sandy cobbles	42-70	fine-medium sand	70-73	fine gravel	73-91	fine-coarse sand	91-94	cobbles	94-101	fine sand	101-145	sandy cobbles, boulder zone	145-165	fine-medium sand	165-182	fine-medium sand with a little coarse sand
depth(ft.)	lithology																								
0-16	cobbles																								
16-42	gravelly, sandy cobbles																								
42-70	fine-medium sand																								
70-73	fine gravel																								
73-91	fine-coarse sand																								
91-94	cobbles																								
94-101	fine sand																								
101-145	sandy cobbles, boulder zone																								
145-165	fine-medium sand																								
165-182	fine-medium sand with a little coarse sand																								
WELL DESIGN																									
CASING MATERIAL Surface: Steel Monitor: PVC	SCREEN MATERIAL Type: PVC Slot Size: 0.010 inch	SEAL MATERIAL Seal #1 Type: Benseal Slurry Setting: 24-155' Seal #2 Type: Portland Cement Setting: 0-24'																							
FILTER MATERIAL Type: #1 Silica Sand Setting: 155-180'	ROCK CORING Cored Interval: Core Diameter: Reamed Diameter:	LEGEND Cement/Bentonite Grout Bentonite Seal Silica Sandpack																							
Client: NYSDEC Phase 2	Project: Queensbury Landfill	Project Number: 35231.05																							
URS Consultants Inc.	Monitoring Well Constuction Details	Well Number: MW-3																							

DRILLING SUMMARY

Geologist:

Scott Swanson

Drilling Company:

C.D.S.

Driller:

John Coyle

Date:

11/2/90

GEOLOGIC LOG

depth(ft.)	lithology
0-22	sandy gravel, some silt

WELL DESIGN**CASING MATERIAL**

Surface: Steel

Monitor: PVC

SCREEN MATERIAL

Type: PVC

Slot Size: 0.010 inch

SEAL MATERIALSeal #1 Type: Bentonite Pellets
Setting: 2-2.5'Seal #2 Type: Portland Cement
Setting: 0-2'**FILTER MATERIAL**

Type: #1 Silica Sand

Setting: 2.5-22'

ROCK CORING

Cored Interval:

Core Diameter:

Reamed Diameter:

LEGEND Cement/Bentonite Grout Bentonite Seal Silica SandpackD
E
P
T
H

Elevation 327.77'

Elevation 325.18'

Protective casing and lockable cap

Ground Level

BOREHOLE

7-3/8 inch dia.

22 feet length

2'

2.5'

3'

WELL RISER

2 inch dia.

5.59 feet length

WELL SCREEN

2 inch dia.

18 feet length

21'

22'

Client: NYSDEC Phase 2

Project: Queensbury Landfill

Project Number: 35231.05

URS
Consultants Inc.Monitoring Well
Constuction Details

Well Number: MW-4

DRILLING SUMMARY

Geologist:

Scott Swanson

Drilling Company:

C.D.S.

Driller:

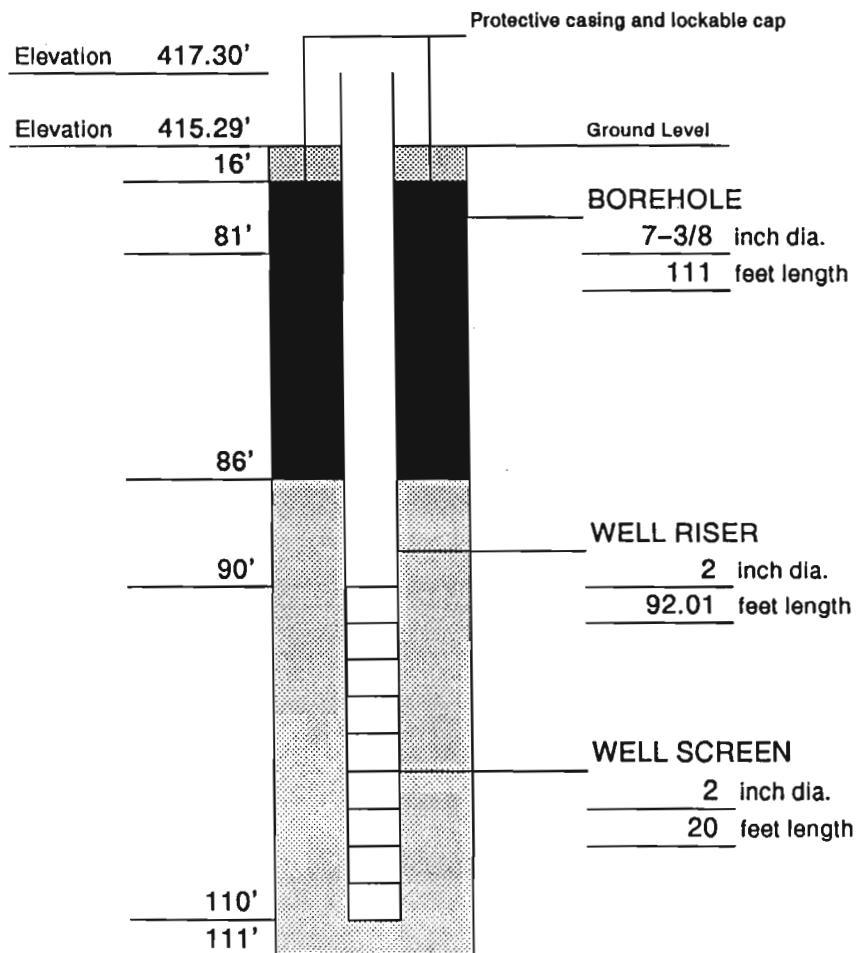
John Coyle

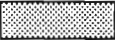
Date:

10/23/90-10/29/90

GEOLOGIC LOG

depth(ft.)	lithology
0-50	cobbles, boulders
50-92	gravelly, sandy cobbles
92-111	sandy gravel

WELL DESIGND
E
P
T
H

CASING MATERIAL		SCREEN MATERIAL	SEAL MATERIAL
Surface:	Steel	Type: PVC	Seal #1 Type Bentonite Pellets Setting: 81-86'
Monitor:	PVC	Slot Size: 0.010 inch	Seal #2 Type Benseal Slurry Setting: 16-81'
			Seal #3 Type Portland Cement Setting: 0-16'
FILTER MATERIAL		ROCK CORING	LEGEND
Type:	#1 Silica Sand	Cored Interval:	 Cement/Bentonite Grout
Setting:	86-111'	Core Diameter:	 Bentonite Seal
		Reamed Diameter:	 Silica Sandpack
Client:	NYSDEC Phase 2	Project: Queensbury Landfill	Project Number: 35231.05
URS Consultants Inc.		Monitoring Well Constuction Details	Well Number: MW-5



ATTACHMENT 3
SAMPLING LOGS



Well information:

* Measurements taken from

Start Purge Time: 1115

End Purge Time: 11:55

Water sample:

Time collected: 13:00

Physical appearance at start

Color Clear

Odor	Methane Like/Septic Like
------	--------------------------

Sheen/Free Product	None
--------------------	------

Samples collected between ~11:55- 15:00 due to low flow rate

Sample time is in middle of sampling

Total volume of purged water removed: 1 gallon

Physical appearance at sampling

Color Clear

Odor	None
------	------

Sheen/Free Product	None
--------------------	------

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

NA

NA

NA

Analytical Parameters:

Per QAPP

5-WAR-001-002-03

MS/MSD Collected Here

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
PFAS	250 mL Plastic	6	No	None	NA
1,4 - Dioxane	1 L Amber Glass	6	No	None	NA
SVOCs	250 mL Amber Glass	6	No	None	NA
VOCs	40 mL Glass VOA	9	No	HCl	NA
TOC	40 mL Glass VOA	6	No	HCl	NA
Metals/Hardness	250 mL Plastic	3	No	Nitric Acid	NA
SO4/Chloride/Bromide	60 mL Plastic	3	No	None	NA
TDS	500 mL Plastic	3	No	None	NA
Alkalinity	125 mL Plastic	3	No	None	NA
Ammonia/COD	250 mL Plastic	3	No	Sulfuric Acid	NA

Well information:

Start Purge Time:	10:55
-------------------	-------

End Purge Time: 11:30

Water sample:

Physical appearance at start

Physical appearance at sampling

Color Slightly cloudy

Color Clear

Odor	None
------	------

Odor No

Sheen/Free Product	None
--------------------	------

Sheen/Free Product	<u>No</u>
--------------------	-----------

Field Test Results:

Dissolved ferrous iron: N/A

Dissolved total iron:	N/A
-----------------------	-----

Dissolved total manganese: N/A

Analytical Parameters:	Per QAPP	5-WAR-001-003-04	Field Duplicate: 5-WAR-001-00-05
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I:\Parsons-Eng.8653\65982.Inactive-Landfill\N-D\Region_5\LF Documents\Warren County\Queensbury Landfill\OBG\Field Materials\Logs\Excel\MW-2.xls

Well information:

Start Purge Time:	15:35
-------------------	-------

End Purge Time: 16:05

Field Test Results:	Dissolved ferrous iron:	N/A
	Dissolved total iron:	N/A
	Dissolved total manganese:	N/A

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
PFAS	250 mL Plastic	2	No	None	NA
1,4 - Dioxane	1 L Amber Glass	2	No	None	NA
SVOCs	250 mL Amber Glass	2	No	None	NA
VOCs	40 mL Glass VOA	3	No	HCl	NA
TOC	40 mL Glass VOA	2	No	HCl	NA
Metals/Hardness	250 mL Plastic	1	No	Nitric Acid	NA
SO4/Chloride/Bromide	60 mL Plastic	1	No	None	NA
TDS	500 mL Plastic	1	No	None	NA
Alkalinity	125 mL Plastic	1	No	None	NA
Ammonia/COD	250 mL Plastic	1	No	Sulfuric Acid	NA

Date 1/24/2020
 Site Name Queensbury LF
 Location Queensbury, NY
 Project No. 65982
 Personnel MTB, AJF

Weather Sunny, 15° F
 Well # MW-4
 Evacuation Method Bailer
 Sampling Method Handbailing

Well Information:

Depth of Well * 18.61 ft.

Depth to Water * 5.88 ft.

Length of Water Column 12.73 ft.

Volume of Water in Well 2.07 gal.(s)

3X Volume of Water in Well 6.22 gal.(s)

Water Volume /ft. for:

1" Diameter Well = 0.041 X LWC

X 2" Diameter Well = 0.163 X LWC

4" Diameter Well = 0.653 X LWC

Volume removed before sampling 6.22 gal.(s)

Did well go dry? No

* Measurements taken from ☒ Well Casing ☐ Protective Casing ☐ (Other, Specify)

Instrument Calibration:**pH Buffer Readings**

4.0 Standard 4.11 s.u.

7.0 Standard 7.03 s.u.

10.0 Standard 9.99 s.u.

Conductivity Standard Readings

7 mS Standard 6.97 mS

1413 mS Standard N/A

Water parameters:

	Volumes Removed	Temperature Readings (°C)	pH Readings (s.u)	Conductivity Readings (mS/cm)	Turbidity Readings (NTU)
initial	<u>0</u>	initial <u>6.5</u>	initial <u>6.89</u>	initial <u>0.682</u>	initial <u>7.88</u>
	<u>1</u>	<u>5.9</u>	<u>6.59</u>	<u>0.55</u>	<u>46</u>
	<u>2</u>	<u>6.1</u>	<u>6.79</u>	<u>0.573</u>	<u>81.4</u>
	<u>3</u>	<u>6.4</u>	<u>6.9</u>	<u>0.622</u>	<u>80.2</u>

Water Sample:

Time Collected 11:05

Physical Appearance at Start

Color Clear

Odor None

Turbidity (> 100 NTU) 7.88 NTU

Sheen/Free Product None

Physical Appearance at Sampling

Color Slightly Cloudy

Odor None

Turbidity (> 100 NTU) 32.4 NTU

Sheen/Free Product None

Samples collected: 5-WAR-001-004-01

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
250 mL	Plastic	2	No	None	N/A
250 mL	Amber Glass	2	No	None	N/A
60 mL	Plastic	1	No	None	N/A
250 mL	Plastic	1	No	Sulfuric Acid	N/A
250 mL	Plastic	1	No	Nitric Acid	N/A
40 mL	Voa Vial	3	No	Hydrochloric Acid	N/A
40 mL	Voa Vial	2	No	Hydrochloric Acid	N/A
1 Liter	Amber Glass	2	No	None	N/A
500 mL	Plastic	1	No	None	N/A
125 mL	Plastic	1	No	None	N/A

Notes:

Well information:

Start Purge Time:	15:50
-------------------	-------

End Purge Time: 16:23

Water sample:

Field Test Results:	Dissolved ferrous iron:	N/A
	Dissolved total iron:	N/A
	Dissolved total manganese:	N/A

Analytical Parameters:	Per QAPP	5-WAR-001-001--01
-------------------------------	----------	-------------------

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ATTACHMENT 4

ANALYTICAL LABORATORY LEVEL II DATA DELIVERABLE

ANALYTICAL REPORT

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

Laboratory Job ID: 480-165462-1

Laboratory Sample Delivery Group: 480-165462-1

Client Project/Site: Queensbury LF , Region 5

For:

O'Brien & Gere Engineers, Inc.
PO BOX 4873
Syracuse, New York 13221-4873

Attn: Scott Tucker



Authorized for release by:

2/13/2020 5:47:16 PM

Alexander Gilbert, Project Management Assistant I
alexander.gilbert@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

LINKS

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results through

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www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Case Narrative

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Job ID: 480-165462-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-165462-1

Comments

No additional comments.

Receipt

The samples were received on 1/23/2020 8:00 AM, 1/24/2020 8:00 AM and 1/25/2020 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 2.5° C, 2.6° C, 2.7° C, 2.7° C, 2.8° C, 3.0° C and 3.0° C.

Receipt Exceptions

A revised chain of custody (COC) was received for job 480-165581-1 after the samples arrived at the laboratory. The revised COC is included in this report.

A revised chain of custody (COC) was received for job 480-165462-1 after the samples arrived at the laboratory. The revised COC is included in this report.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: 5-WAR-001-003-06 (480-165581-6). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample 5-WAR-001-003-06 (480-165581-6) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

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

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: 5-WAR-001-001-01 (480-165462-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: 5-WAR-001-002-03 (480-165515-3). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was reported with elevated reporting limits for all analytes: 5-WAR-001-003-04 (480-165581-4). The sample was analyzed at a dilution based on screening results.

Method 300.0: The following samples were reported with elevated reporting limits for all analytes: 5-WAR-001-003-05 (480-165581-5), 5-WAR-001-003-06 (480-165581-6) and 5-WAR-001-004-01 (480-165586-1). The sample was analyzed at a dilution based on screening results.

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

Metals

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

LCMS

Method 537 (modified): The method blank for preparation batch 200-151852 and analytical batch 200-151857 contained Perfluorononanoic acid (PFNA) and Perfluorotridecanoic acid (PFTriA) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Case Narrative

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Job ID: 480-165462-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 537 (modified): The Ion Ratio associated with PFOS in sample 5-WAR-001-003-04 (480-165581-4) fails our in-house defined limits, however the result is being reported because the peaks observed for both mass transitions are within the expected retention time windows for the branched chain isomers in our calibration mix. Since many of these isomers are at very low levels in our mixed calibration source (many are less than 5% of the solution), it's difficult to project how the different isomer's responses differ at higher levels, so we do not reject the detect based solely upon the ratio failure.

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) precision for 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2) was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following CCV is below the method recommended limit: (CCV 200-152174/11). This was caused by a clog in the injection needle, which reduced the injection volume from 20uL to 5uL. All of the associated target and IDA compounds meet QC acceptance criteria, therefore the data is being reported. Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). All detection limits are below the lower calibration.

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

General Chemistry

Method 410.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-515375 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep

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

Detection Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-001-01

Lab Sample ID: 480-165462-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.56	J	1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	2.2		1.7	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.89	J	1.7	0.63	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.43	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.6	J	1.7	0.67	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.98	J	1.7	0.52	ng/L	1		537 (modified)	Total/NA
Barium	0.035		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.0091	J	0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	77.5		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	22.6		0.20	0.043	mg/L	1		6010C	Total/NA
Potassium	1.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	40.9		1.0	0.32	mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	287		0.50	0.10	mg/L	1		SM 2340B	Total/NA
Chloride	99.8		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	23.2		10.0	1.7	mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	16.8		10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	0.45	J	1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	249	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1200		100	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 5-WAR-001-001-02

Lab Sample ID: 480-165462-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.24	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 5-WAR-001-001-03

Lab Sample ID: 480-165462-3

No Detections.

Client Sample ID: 5-WAR-001-001-04

Lab Sample ID: 480-165462-4

No Detections.

Client Sample ID: 5-WAR-001-002-01

Lab Sample ID: 480-165515-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorododecanoic acid (PFDoA)	0.52	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.35	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 5-WAR-001-002-02

Lab Sample ID: 480-165515-2

No Detections.

Client Sample ID: 5-WAR-001-002-03

Lab Sample ID: 480-165515-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.73	J	1.0	0.51	ug/L	1		8260C	Total/NA
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	13	J F2	18	4.9	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	2.2		1.8	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.78	J	1.8	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.86	J	1.8	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.2	J	1.8	0.72	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.1	J	1.8	0.56	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-002-03 (Continued)

Lab Sample ID: 480-165515-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.051		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.011	J	0.020	0.0040	mg/L	1		6010C	Total/NA
Cadmium	0.00050	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	127		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	26.5		0.20	0.043	mg/L	1		6010C	Total/NA
Potassium	1.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	79.7		1.0	0.32	mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	427		0.50	0.10	mg/L	1		SM 2340B	Total/NA
Chloride	193		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	21.7		10.0	1.7	mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	23.9	F1	10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	0.96	J	1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	349	B F1	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	766		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 5-WAR-001-002-04

Lab Sample ID: 480-165515-4

No Detections.

Client Sample ID: 5-WAR-001-003-01

Lab Sample ID: 480-165581-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.29	J B	1.7	0.23	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 5-WAR-001-003-02

Lab Sample ID: 480-165581-2

No Detections.

Client Sample ID: 5-WAR-001-003-03

Lab Sample ID: 480-165581-3

No Detections.

Client Sample ID: 5-WAR-001-003-04

Lab Sample ID: 480-165581-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.21		0.19	0.095	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	3.5		1.8	0.88	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.83	J	1.8	0.83	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.8		1.8	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	25		1.8	0.70	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.2		1.8	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.29	J B	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.6	I	1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	210		1.8	0.71	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.5		1.8	0.55	ng/L	1		537 (modified)	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.034		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	197		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.00082	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.21		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	31.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.37		0.0030	0.00040	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-04 (Continued)

Lab Sample ID: 480-165581-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.012		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	5.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2.2		1.0	0.32	mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	623		0.50	0.10	mg/L	1		SM 2340B	Total/NA
Chloride	1.4	J	2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	72.2		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.027		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	3.9		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	571	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	722		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 5-WAR-001-003-05

Lab Sample ID: 480-165581-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.22		0.19	0.097	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.96	J	1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	3.5		1.7	0.84	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.95	J	1.7	0.80	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.5		1.7	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	23		1.7	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.5		1.7	0.64	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.35	J B	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.0		1.7	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	210		1.7	0.68	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.2		1.7	0.53	ng/L	1		537 (modified)	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.034		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	197		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.012		0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	0.25		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	32.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.35		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.017		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	5.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2.2		1.0	0.32	mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	625		0.50	0.10	mg/L	1		SM 2340B	Total/NA
Sulfate	68.8		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.032		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	4.0		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	572	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	762		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 5-WAR-001-003-06

Lab Sample ID: 480-165581-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.38	J	1.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dioxane	6.0	E	0.95	0.48	ug/L	5		8270D SIM ID	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	10		1.8	0.91	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.2		1.8	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.4		1.8	0.73	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-06 (Continued)

Lab Sample ID: 480-165581-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	11		1.8	0.69	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.79	J	1.8	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	17		1.8	0.74	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.6		1.8	0.57	ng/L	1		537 (modified)	Total/NA
Barium	0.18		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.21		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	178		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0088		0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.93		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	63.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.4		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.016		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	11.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	41.9		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0036	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	704		0.50	0.10	mg/L	1		SM 2340B	Total/NA
Chloride	77.5		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	70.7		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	2.8		0.040	0.018	mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	13.6		10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	4.0		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	620	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	895		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 5-WAR-001-003-07

Lab Sample ID: 480-165581-7

No Detections.

Client Sample ID: 5-WAR-001-004-01

Lab Sample ID: 480-165586-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.57		0.19	0.095	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.97	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	6.0		1.8	0.89	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.8	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.77	J	1.8	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.6		1.8	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.48	J B	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.1		1.8	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	8.5		1.8	0.72	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.3		1.8	0.56	ng/L	1		537 (modified)	Total/NA
Aluminum	3.9		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.043		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.012	J	0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	95.7		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0017	J B	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0013	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0030	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	3.1		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0054	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	19.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.55		0.0030	0.00040	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-004-01 (Continued)

Lab Sample ID: 480-165586-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.0025	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1.8		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0025	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.010		0.010	0.0015	mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	319		0.50	0.10	mg/L	1		SM 2340B	Total/NA
Chloride	4.9		1.0	0.56	mg/L	2		300.0	Total/NA
Sulfate	6.6		4.0	0.70	mg/L	2		300.0	Total/NA
Ammonia	0.064		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	2.6		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	313	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	394		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 5-WAR-001-004-02

Lab Sample ID: 480-165586-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.24	J	1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.67	J	1.6	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 5-WAR-001-004-03

Lab Sample ID: 480-165586-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-001-01

Lab Sample ID: 480-165462-1

Date Collected: 01/21/20 16:50

Matrix: Water

Date Received: 01/23/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/27/20 14:06	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/27/20 14:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/27/20 14:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/27/20 14:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/27/20 14:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/27/20 14:06	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/27/20 14:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/27/20 14:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/27/20 14:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/27/20 14:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/27/20 14:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/27/20 14:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/27/20 14:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/27/20 14:06	1
2-Hexanone	ND		5.0	1.2	ug/L			01/27/20 14:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/27/20 14:06	1
Acetone	ND		10	3.0	ug/L			01/27/20 14:06	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/27/20 14:06	1
Benzene	ND		1.0	0.41	ug/L			01/27/20 14:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/27/20 14:06	1
Bromoform	ND		1.0	0.26	ug/L			01/27/20 14:06	1
Bromomethane	ND		1.0	0.69	ug/L			01/27/20 14:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/27/20 14:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/27/20 14:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/27/20 14:06	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/27/20 14:06	1
Chloroethane	ND		1.0	0.32	ug/L			01/27/20 14:06	1
Chloroform	ND		1.0	0.34	ug/L			01/27/20 14:06	1
Chloromethane	ND		1.0	0.35	ug/L			01/27/20 14:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/27/20 14:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/27/20 14:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/27/20 14:06	1
Dibromomethane	ND		1.0	0.41	ug/L			01/27/20 14:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/27/20 14:06	1
Iodomethane	ND		1.0	0.30	ug/L			01/27/20 14:06	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/27/20 14:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/27/20 14:06	1
o-Xylene	ND		1.0	0.76	ug/L			01/27/20 14:06	1
Styrene	ND		1.0	0.73	ug/L			01/27/20 14:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/27/20 14:06	1
Toluene	ND		1.0	0.51	ug/L			01/27/20 14:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/27/20 14:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/27/20 14:06	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/27/20 14:06	1
Trichloroethene	ND		1.0	0.46	ug/L			01/27/20 14:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/27/20 14:06	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/27/20 14:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/27/20 14:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/27/20 14:06	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-001-01

Lab Sample ID: 480-165462-1

Date Collected: 01/21/20 16:50

Matrix: Water

Date Received: 01/23/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		01/27/20 14:06	1
4-Bromofluorobenzene (Surr)	103		73 - 120		01/27/20 14:06	1
Dibromofluoromethane (Surr)	100		75 - 123		01/27/20 14:06	1
Toluene-d8 (Surr)	100		80 - 120		01/27/20 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		01/27/20 08:56	01/28/20 15:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				01/27/20 08:56	01/28/20 15:28	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 04:13	1
Acenaphthylene	ND		0.50	0.34	ug/L		01/27/20 15:41	01/29/20 04:13	1
Anthracene	ND		0.50	0.39	ug/L		01/27/20 15:41	01/29/20 04:13	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		01/27/20 15:41	01/29/20 04:13	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 04:13	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 04:13	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 04:13	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		01/27/20 15:41	01/29/20 04:13	1
Chrysene	ND		0.50	0.32	ug/L		01/27/20 15:41	01/29/20 04:13	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 04:13	1
Fluoranthene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 04:13	1
Fluorene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 04:13	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		01/27/20 15:41	01/29/20 04:13	1
Naphthalene	ND		0.50	0.42	ug/L		01/27/20 15:41	01/29/20 04:13	1
Phenanthrene	ND		0.50	0.38	ug/L		01/27/20 15:41	01/29/20 04:13	1
Pyrene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		48 - 120	01/27/20 15:41	01/29/20 04:13	1
Nitrobenzene-d5	94		46 - 120	01/27/20 15:41	01/29/20 04:13	1
p-Terphenyl-d14	68		24 - 136	01/27/20 15:41	01/29/20 04:13	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.4	ng/L		01/29/20 10:40	01/29/20 18:03	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.6	ng/L		01/29/20 10:40	01/29/20 18:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.2	ng/L		01/29/20 10:40	01/29/20 18:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorobutanesulfonic acid (PFBS)	0.56	J	1.7	0.41	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorobutanoic acid (PFBA)	2.2		1.7	0.83	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.75	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.64	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49	ng/L		01/29/20 10:40	01/29/20 18:03	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-001-01

Lab Sample ID: 480-165462-1

Date Collected: 01/21/20 16:50

Matrix: Water

Date Received: 01/23/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.79	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.76	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.67	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorohexanoic acid (PFHxA)	0.89	J	1.7	0.63	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorononanoic acid (PFNA)	0.43	J	1.7	0.22	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.3	8.3	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.51	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorooctanoic acid (PFOA)	1.6	J	1.7	0.67	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluoropentanoic acid (PFPeA)	0.98	J	1.7	0.52	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50	ng/L		01/29/20 10:40	01/29/20 18:03	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.65	ng/L		01/29/20 10:40	01/29/20 18:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	103		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C2 PFDoA	81		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C2 PFHxA	122		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C2 PFUnA	95		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C2 PFTeDA	91		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C3 PFBS	119		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C4 PFBA	119		25 - 150	01/29/20 10:40	01/29/20 18:03	1
13C4 PFOA	109		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C4 PFOS	109		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C4 PFHpA	123		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C5 PFNA	108		50 - 150	01/29/20 10:40	01/29/20 18:03	1
13C5 PFPeA	122		25 - 150	01/29/20 10:40	01/29/20 18:03	1
13C8 FOSA	90		25 - 150	01/29/20 10:40	01/29/20 18:03	1
18O2 PFHxS	115		50 - 150	01/29/20 10:40	01/29/20 18:03	1
d3-NMeFOSAA	83		50 - 150	01/29/20 10:40	01/29/20 18:03	1
d5-NEtFOSAA	83		50 - 150	01/29/20 10:40	01/29/20 18:03	1
M2-6:2 FTS	94		25 - 150	01/29/20 10:40	01/29/20 18:03	1
M2-8:2 FTS	93		25 - 150	01/29/20 10:40	01/29/20 18:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		01/24/20 08:35	01/24/20 15:34	1
Antimony	ND		0.020	0.0068	mg/L		01/24/20 08:35	01/24/20 15:34	1
Arsenic	ND		0.015	0.0056	mg/L		01/24/20 08:35	01/24/20 15:34	1
Barium	0.035		0.0020	0.00070	mg/L		01/24/20 08:35	01/24/20 15:34	1
Beryllium	ND		0.0020	0.00030	mg/L		01/24/20 08:35	01/24/20 15:34	1
Boron	0.0091	J	0.020	0.0040	mg/L		01/24/20 08:35	01/24/20 15:34	1
Cadmium	ND		0.0020	0.00050	mg/L		01/24/20 08:35	01/24/20 15:34	1
Calcium	77.5		0.50	0.10	mg/L		01/24/20 08:35	01/24/20 15:34	1
Chromium	ND		0.0040	0.0010	mg/L		01/24/20 08:35	01/24/20 15:34	1
Cobalt	ND		0.0040	0.00063	mg/L		01/24/20 08:35	01/24/20 15:34	1
Copper	ND		0.010	0.0016	mg/L		01/24/20 08:35	01/24/20 15:34	1
Iron	ND		0.050	0.019	mg/L		01/24/20 08:35	01/24/20 15:34	1
Lead	ND		0.010	0.0030	mg/L		01/24/20 08:35	01/24/20 15:34	1
Magnesium	22.6		0.20	0.043	mg/L		01/24/20 08:35	01/24/20 15:34	1
Manganese	ND		0.0030	0.00040	mg/L		01/24/20 08:35	01/24/20 15:34	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-001-01

Lab Sample ID: 480-165462-1

Date Collected: 01/21/20 16:50

Matrix: Water

Date Received: 01/23/20 08:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.010	0.0013	mg/L		01/24/20 08:35	01/24/20 15:34	1
Potassium	1.4		0.50	0.10	mg/L		01/24/20 08:35	01/24/20 15:34	1
Selenium	ND		0.025	0.0087	mg/L		01/24/20 08:35	01/24/20 15:34	1
Silver	ND		0.0060	0.0017	mg/L		01/24/20 08:35	01/24/20 15:34	1
Sodium	40.9		1.0	0.32	mg/L		01/24/20 08:35	01/24/20 15:34	1
Thallium	ND		0.020	0.010	mg/L		01/24/20 08:35	01/24/20 15:34	1
Vanadium	ND		0.0050	0.0015	mg/L		01/24/20 08:35	01/24/20 15:34	1
Zinc	ND		0.010	0.0015	mg/L		01/24/20 08:35	01/24/20 15:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/24/20 11:34	01/24/20 15:56	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	287		0.50	0.10	mg/L			01/29/20 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			01/24/20 23:57	5
Chloride	99.8		2.5	1.4	mg/L			01/24/20 23:57	5
Sulfate	23.2		10.0	1.7	mg/L			01/24/20 23:57	5
Ammonia	ND		0.020	0.0090	mg/L			01/23/20 14:18	1
Chemical Oxygen Demand	16.8		10.0	5.0	mg/L			01/28/20 13:43	1
Total Organic Carbon	0.45	J	1.0	0.43	mg/L			01/25/20 02:55	1
Alkalinity, Total	249	B	5.0	0.79	mg/L			01/31/20 20:29	1
Total Dissolved Solids	1200		100	40.0	mg/L			01/24/20 11:08	1

Client Sample ID: 5-WAR-001-001-02

Lab Sample ID: 480-165462-2

Date Collected: 01/21/20 16:55

Matrix: Water

Date Received: 01/23/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.4	ng/L		01/29/20 10:40	01/29/20 18:12	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.5	ng/L		01/29/20 10:40	01/29/20 18:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.2	ng/L		01/29/20 10:40	01/29/20 18:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.41	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorobutanoic acid (PFBA)	ND		1.7	0.83	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.74	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.64	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.79	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.75	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.66	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.63	ng/L		01/29/20 10:40	01/29/20 18:12	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-001-02

Lab Sample ID: 480-165462-2

Date Collected: 01/21/20 16:55

Matrix: Water

Date Received: 01/23/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	0.24	J	1.7	0.22	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.3	8.3	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.50	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.67	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.52	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.76	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50	ng/L		01/29/20 10:40	01/29/20 18:12	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.65	ng/L		01/29/20 10:40	01/29/20 18:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	117		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C2 PFDoA	103		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C2 PFHxA	129		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C2 PFUnA	105		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C2 PFTeDA	101		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C3 PFBS	119		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C4 PFBA	127		25 - 150				01/29/20 10:40	01/29/20 18:12	1
13C4 PFOA	115		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C4 PFOS	119		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C4 PFHpA	134		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C5 PFNA	123		50 - 150				01/29/20 10:40	01/29/20 18:12	1
13C5 PFPeA	131		25 - 150				01/29/20 10:40	01/29/20 18:12	1
13C8 FOSA	90		25 - 150				01/29/20 10:40	01/29/20 18:12	1
18O2 PFHxS	121		50 - 150				01/29/20 10:40	01/29/20 18:12	1
d3-NMeFOSAA	89		50 - 150				01/29/20 10:40	01/29/20 18:12	1
d5-NEtFOSAA	86		50 - 150				01/29/20 10:40	01/29/20 18:12	1
M2-6:2 FTS	108		25 - 150				01/29/20 10:40	01/29/20 18:12	1
M2-8:2 FTS	112		25 - 150				01/29/20 10:40	01/29/20 18:12	1

Client Sample ID: 5-WAR-001-001-03

Lab Sample ID: 480-165462-3

Date Collected: 01/21/20 17:30

Matrix: Water

Date Received: 01/23/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5	ng/L		01/29/20 10:40	01/29/20 18:20	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.7	ng/L		01/29/20 10:40	01/29/20 18:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		01/29/20 10:40	01/29/20 18:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorobutanoic acid (PFBA)	ND		1.7	0.85	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.76	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.65	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.81	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.77	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.68	ng/L		01/29/20 10:40	01/29/20 18:20	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-001-03

Lab Sample ID: 480-165462-3

Date Collected: 01/21/20 17:30

Matrix: Water

Date Received: 01/23/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.64	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.5	8.5	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.52	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.69	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.53	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.78	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.7	0.51	ng/L		01/29/20 10:40	01/29/20 18:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.66	ng/L		01/29/20 10:40	01/29/20 18:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	117		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C2 PFDoA	80		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C2 PFHxA	126		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C2 PFUnA	100		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C2 PFTeDA	76		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C3 PFBS	115		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C4 PFBA	126		25 - 150	01/29/20 10:40	01/29/20 18:20	1
13C4 PFOA	117		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C4 PFOS	120		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C4 PFHpA	120		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C5 PFNA	118		50 - 150	01/29/20 10:40	01/29/20 18:20	1
13C5 PFPeA	127		25 - 150	01/29/20 10:40	01/29/20 18:20	1
13C8 FOSA	64		25 - 150	01/29/20 10:40	01/29/20 18:20	1
18O2 PFHxS	118		50 - 150	01/29/20 10:40	01/29/20 18:20	1
d3-NMeFOSAA	71		50 - 150	01/29/20 10:40	01/29/20 18:20	1
d5-NEtFOSAA	73		50 - 150	01/29/20 10:40	01/29/20 18:20	1
M2-6:2 FTS	93		25 - 150	01/29/20 10:40	01/29/20 18:20	1
M2-8:2 FTS	97		25 - 150	01/29/20 10:40	01/29/20 18:20	1

Client Sample ID: 5-WAR-001-001-04

Lab Sample ID: 480-165462-4

Date Collected: 01/21/20 00:00

Matrix: Water

Date Received: 01/23/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/27/20 14:29	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/27/20 14:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/27/20 14:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/27/20 14:29	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/27/20 14:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/27/20 14:29	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/27/20 14:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/27/20 14:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/27/20 14:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/27/20 14:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/27/20 14:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/27/20 14:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/27/20 14:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/27/20 14:29	1
2-Hexanone	ND		5.0	1.2	ug/L			01/27/20 14:29	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-001-04

Lab Sample ID: 480-165462-4

Date Collected: 01/21/20 00:00

Matrix: Water

Date Received: 01/23/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/27/20 14:29	1
Acetone	ND		10	3.0	ug/L			01/27/20 14:29	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/27/20 14:29	1
Benzene	ND		1.0	0.41	ug/L			01/27/20 14:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/27/20 14:29	1
Bromoform	ND		1.0	0.26	ug/L			01/27/20 14:29	1
Bromomethane	ND		1.0	0.69	ug/L			01/27/20 14:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/27/20 14:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/27/20 14:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/27/20 14:29	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/27/20 14:29	1
Chloroethane	ND		1.0	0.32	ug/L			01/27/20 14:29	1
Chloroform	ND		1.0	0.34	ug/L			01/27/20 14:29	1
Chloromethane	ND		1.0	0.35	ug/L			01/27/20 14:29	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/27/20 14:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/27/20 14:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/27/20 14:29	1
Dibromomethane	ND		1.0	0.41	ug/L			01/27/20 14:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/27/20 14:29	1
Iodomethane	ND		1.0	0.30	ug/L			01/27/20 14:29	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/27/20 14:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/27/20 14:29	1
o-Xylene	ND		1.0	0.76	ug/L			01/27/20 14:29	1
Styrene	ND		1.0	0.73	ug/L			01/27/20 14:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/27/20 14:29	1
Toluene	ND		1.0	0.51	ug/L			01/27/20 14:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/27/20 14:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/27/20 14:29	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/27/20 14:29	1
Trichloroethene	ND		1.0	0.46	ug/L			01/27/20 14:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/27/20 14:29	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/27/20 14:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/27/20 14:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/27/20 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/27/20 14:29	1
4-Bromofluorobenzene (Surr)	102		73 - 120		01/27/20 14:29	1
Dibromofluoromethane (Surr)	101		75 - 123		01/27/20 14:29	1
Toluene-d8 (Surr)	99		80 - 120		01/27/20 14:29	1

Client Sample ID: 5-WAR-001-002-01

Lab Sample ID: 480-165515-1

Date Collected: 01/22/20 09:40

Matrix: Water

Date Received: 01/24/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.6	ng/L		01/29/20 10:40	01/29/20 19:25	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.9	ng/L		01/29/20 10:40	01/29/20 19:25	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-002-01

Lab Sample ID: 480-165515-1

Date Collected: 01/22/20 09:40

Matrix: Water

Date Received: 01/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.3	ng/L		01/29/20 10:40	01/29/20 19:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.43	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorobutanoic acid (PFBA)	ND		1.8	0.88	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.80	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.68	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorododecanoic acid (PFDoA)	0.52	J	1.8	0.52	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.84	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.80	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.71	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.67	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorononanoic acid (PFNA)	0.35	J	1.8	0.24	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.8	8.8	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.72	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.56	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		01/29/20 10:40	01/29/20 19:25	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.69	ng/L		01/29/20 10:40	01/29/20 19:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	95		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C2 PFDoA	84		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C2 PFHxA	112		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C2 PFUnA	107		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C2 PFTeDA	97		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C3 PFBS	109		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C4 PFBA	119		25 - 150				01/29/20 10:40	01/29/20 19:25	1
13C4 PFOA	108		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C4 PFOS	99		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C4 PFHpA	113		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C5 PFNA	101		50 - 150				01/29/20 10:40	01/29/20 19:25	1
13C5 PFPeA	115		25 - 150				01/29/20 10:40	01/29/20 19:25	1
13C8 FOSA	83		25 - 150				01/29/20 10:40	01/29/20 19:25	1
18O2 PFHxS	108		50 - 150				01/29/20 10:40	01/29/20 19:25	1
d3-NMeFOSAA	76		50 - 150				01/29/20 10:40	01/29/20 19:25	1
d5-NEtFOSAA	82		50 - 150				01/29/20 10:40	01/29/20 19:25	1
M2-6:2 FTS	90		25 - 150				01/29/20 10:40	01/29/20 19:25	1
M2-8:2 FTS	89		25 - 150				01/29/20 10:40	01/29/20 19:25	1

Client Sample ID: 5-WAR-001-002-02

Lab Sample ID: 480-165515-2

Date Collected: 01/22/20 09:45

Matrix: Water

Date Received: 01/24/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.4	ng/L		01/29/20 10:40	01/29/20 19:33	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-002-02

Lab Sample ID: 480-165515-2

Date Collected: 01/22/20 09:45

Matrix: Water

Date Received: 01/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.6	ng/L		01/29/20 10:40	01/29/20 19:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		01/29/20 10:40	01/29/20 19:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.41	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorobutanoic acid (PFBA)	ND		1.7	0.83	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.75	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.64	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.79	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.76	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.67	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.63	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.3	8.3	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.51	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.67	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.52	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.7	0.50	ng/L		01/29/20 10:40	01/29/20 19:33	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.65	ng/L		01/29/20 10:40	01/29/20 19:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	96		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C2 PFDoA	78		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C2 PFHxA	111		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C2 PFUnA	101		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C2 PFTeDA	80		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C3 PFBS	111		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C4 PFBA	122		25 - 150	01/29/20 10:40	01/29/20 19:33	1
13C4 PFOA	101		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C4 PFOS	105		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C4 PFHpA	112		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C5 PFNA	100		50 - 150	01/29/20 10:40	01/29/20 19:33	1
13C5 PFPeA	112		25 - 150	01/29/20 10:40	01/29/20 19:33	1
13C8 FOSA	82		25 - 150	01/29/20 10:40	01/29/20 19:33	1
18O2 PFHxS	105		50 - 150	01/29/20 10:40	01/29/20 19:33	1
d3-NMeFOSAA	71		50 - 150	01/29/20 10:40	01/29/20 19:33	1
d5-NEtFOSAA	79		50 - 150	01/29/20 10:40	01/29/20 19:33	1
M2-6:2 FTS	88		25 - 150	01/29/20 10:40	01/29/20 19:33	1
M2-8:2 FTS	100		25 - 150	01/29/20 10:40	01/29/20 19:33	1

Client Sample ID: 5-WAR-001-002-03

Lab Sample ID: 480-165515-3

Date Collected: 01/22/20 13:00

Matrix: Water

Date Received: 01/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 14:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-002-03

Lab Sample ID: 480-165515-3

Date Collected: 01/22/20 13:00

Matrix: Water

Date Received: 01/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 14:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 14:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 14:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 14:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 14:49	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 14:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 14:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 14:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 14:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 14:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 14:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 14:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 14:49	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 14:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 14:49	1
Acetone	ND		10	3.0	ug/L			01/31/20 14:49	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 14:49	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 14:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 14:49	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 14:49	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 14:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 14:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 14:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 14:49	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 14:49	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 14:49	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 14:49	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 14:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 14:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 14:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 14:49	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 14:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 14:49	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 14:49	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 14:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 14:49	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 14:49	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 14:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 14:49	1
Toluene	0.73 J		1.0	0.51	ug/L			01/31/20 14:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 14:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 14:49	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 14:49	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 14:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 14:49	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 14:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 14:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 14:49	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-002-03

Lab Sample ID: 480-165515-3

Date Collected: 01/22/20 13:00

Matrix: Water

Date Received: 01/24/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		01/31/20 14:49	1
4-Bromofluorobenzene (Surr)	98		73 - 120		01/31/20 14:49	1
Dibromofluoromethane (Surr)	97		75 - 123		01/31/20 14:49	1
Toluene-d8 (Surr)	97		80 - 120		01/31/20 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.098	ug/L		01/27/20 08:56	01/28/20 14:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				01/27/20 08:56	01/28/20 14:39	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 03:45	1
Acenaphthylene	ND		0.50	0.34	ug/L		01/27/20 15:41	01/29/20 03:45	1
Anthracene	ND		0.50	0.39	ug/L		01/27/20 15:41	01/29/20 03:45	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		01/27/20 15:41	01/29/20 03:45	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 03:45	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 03:45	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 03:45	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		01/27/20 15:41	01/29/20 03:45	1
Chrysene	ND		0.50	0.32	ug/L		01/27/20 15:41	01/29/20 03:45	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 03:45	1
Fluoranthene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 03:45	1
Fluorene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 03:45	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		01/27/20 15:41	01/29/20 03:45	1
Naphthalene	ND		0.50	0.42	ug/L		01/27/20 15:41	01/29/20 03:45	1
Phenanthrene	ND		0.50	0.38	ug/L		01/27/20 15:41	01/29/20 03:45	1
Pyrene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		48 - 120	01/27/20 15:41	01/29/20 03:45	1
Nitrobenzene-d5	97		46 - 120	01/27/20 15:41	01/29/20 03:45	1
p-Terphenyl-d14	63		24 - 136	01/27/20 15:41	01/29/20 03:45	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.6	ng/L		01/29/20 10:40	01/29/20 19:42	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	13	J F2	18	4.9	ng/L		01/29/20 10:40	01/29/20 19:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.3	ng/L		01/29/20 10:40	01/29/20 19:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.8	0.43	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorobutanoic acid (PFBA)	2.2		1.8	0.88	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.79	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.68	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		01/29/20 10:40	01/29/20 19:42	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-002-03

Lab Sample ID: 480-165515-3

Date Collected: 01/22/20 13:00

Matrix: Water

Date Received: 01/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.84	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.80	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorohexanesulfonic acid (PFHxS)	0.78	J	1.8	0.71	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorohexanoic acid (PFHxA)	0.86	J	1.8	0.67	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.8	8.8	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorooctanoic acid (PFOA)	1.2	J	1.8	0.72	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluoropentanoic acid (PFPeA)	1.1	J	1.8	0.56	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		01/29/20 10:40	01/29/20 19:42	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.69	ng/L		01/29/20 10:40	01/29/20 19:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	103		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C2 PFDoA	92		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C2 PFHxA	113		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C2 PFUnA	96		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C2 PFTeDA	94		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C3 PFBS	114		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C4 PFBA	116		25 - 150	01/29/20 10:40	01/29/20 19:42	1
13C4 PFOA	114		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C4 PFOS	104		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C4 PFHpA	118		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C5 PFNA	111		50 - 150	01/29/20 10:40	01/29/20 19:42	1
13C5 PFPeA	121		25 - 150	01/29/20 10:40	01/29/20 19:42	1
13C8 FOSA	92		25 - 150	01/29/20 10:40	01/29/20 19:42	1
18O2 PFHxS	109		50 - 150	01/29/20 10:40	01/29/20 19:42	1
d3-NMeFOSAA	81		50 - 150	01/29/20 10:40	01/29/20 19:42	1
d5-NEtFOSAA	91		50 - 150	01/29/20 10:40	01/29/20 19:42	1
M2-6:2 FTS	95		25 - 150	01/29/20 10:40	01/29/20 19:42	1
M2-8:2 FTS	102		25 - 150	01/29/20 10:40	01/29/20 19:42	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		01/27/20 07:38	01/27/20 13:04	1
Antimony	ND		0.020	0.0068	mg/L		01/27/20 07:38	01/27/20 13:04	1
Arsenic	ND		0.015	0.0056	mg/L		01/27/20 07:38	01/27/20 13:04	1
Barium	0.051		0.0020	0.00070	mg/L		01/27/20 07:38	01/27/20 13:04	1
Beryllium	ND		0.0020	0.00030	mg/L		01/27/20 07:38	01/27/20 13:04	1
Boron	0.011	J	0.020	0.0040	mg/L		01/27/20 07:38	01/27/20 13:04	1
Cadmium	0.00050	J	0.0020	0.00050	mg/L		01/27/20 07:38	01/27/20 13:04	1
Calcium	127		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 13:04	1
Chromium	ND		0.0040	0.0010	mg/L		01/27/20 07:38	01/27/20 13:04	1
Cobalt	ND		0.0040	0.00063	mg/L		01/27/20 07:38	01/27/20 13:04	1
Copper	ND		0.010	0.0016	mg/L		01/27/20 07:38	01/27/20 13:04	1
Iron	ND		0.050	0.019	mg/L		01/27/20 07:38	01/27/20 13:04	1
Lead	ND		0.010	0.0030	mg/L		01/27/20 07:38	01/27/20 13:04	1
Magnesium	26.5		0.20	0.043	mg/L		01/27/20 07:38	01/27/20 13:04	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-002-03

Lab Sample ID: 480-165515-3

Date Collected: 01/22/20 13:00

Matrix: Water

Date Received: 01/24/20 08:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.0030	0.00040	mg/L		01/27/20 07:38	01/27/20 13:04	1
Nickel	ND		0.010	0.0013	mg/L		01/27/20 07:38	01/27/20 13:04	1
Potassium	1.3		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 13:04	1
Selenium	ND		0.025	0.0087	mg/L		01/27/20 07:38	01/27/20 13:04	1
Silver	ND		0.0060	0.0017	mg/L		01/27/20 07:38	01/27/20 13:04	1
Sodium	79.7		1.0	0.32	mg/L		01/27/20 07:38	01/27/20 13:04	1
Thallium	ND		0.020	0.010	mg/L		01/27/20 07:38	01/27/20 13:04	1
Vanadium	ND		0.0050	0.0015	mg/L		01/27/20 07:38	01/27/20 13:04	1
Zinc	ND		0.010	0.0015	mg/L		01/27/20 07:38	01/27/20 13:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/28/20 11:50	01/28/20 15:33	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	427		0.50	0.10	mg/L			01/29/20 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			01/28/20 15:44	5
Chloride	193		2.5	1.4	mg/L			01/28/20 15:44	5
Sulfate	21.7		10.0	1.7	mg/L			01/28/20 15:44	5
Ammonia	ND		0.020	0.0090	mg/L			01/27/20 10:37	1
Chemical Oxygen Demand	23.9	F1	10.0	5.0	mg/L			01/28/20 13:43	1
Total Organic Carbon	0.96	J	1.0	0.43	mg/L			01/25/20 18:18	1
Alkalinity, Total	349	B F1	5.0	0.79	mg/L			01/31/20 20:36	1
Total Dissolved Solids	766		10.0	4.0	mg/L			01/25/20 11:39	1

Client Sample ID: 5-WAR-001-002-04

Lab Sample ID: 480-165515-4

Date Collected: 01/22/20 00:00

Matrix: Water

Date Received: 01/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 15:13	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 15:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 15:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 15:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 15:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 15:13	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 15:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 15:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 15:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 15:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 15:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 15:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 15:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 15:13	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 15:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 15:13	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-002-04

Lab Sample ID: 480-165515-4

Date Collected: 01/22/20 00:00

Matrix: Water

Date Received: 01/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.0	ug/L			01/31/20 15:13	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 15:13	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 15:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 15:13	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 15:13	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 15:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 15:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 15:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 15:13	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 15:13	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 15:13	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 15:13	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 15:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 15:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 15:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 15:13	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 15:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 15:13	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 15:13	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 15:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 15:13	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 15:13	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 15:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 15:13	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 15:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 15:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 15:13	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 15:13	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 15:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 15:13	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 15:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 15:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		01/31/20 15:13	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/31/20 15:13	1
Dibromofluoromethane (Surr)	97		75 - 123		01/31/20 15:13	1
Toluene-d8 (Surr)	95		80 - 120		01/31/20 15:13	1

Client Sample ID: 5-WAR-001-003-01

Lab Sample ID: 480-165581-1

Date Collected: 01/23/20 09:40

Matrix: Water

Date Received: 01/25/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.4	ng/L		01/29/20 13:33	01/29/20 21:03	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.6	ng/L		01/29/20 13:33	01/29/20 21:03	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-01

Lab Sample ID: 480-165581-1

Date Collected: 01/23/20 09:40

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		01/29/20 13:33	01/29/20 21:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.41	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorobutanoic acid (PFBA)	ND		1.7	0.84	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.76	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.65	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.80	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.77	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.67	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.64	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorononanoic acid (PFNA)	0.29	J B	1.7	0.23	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.4	8.4	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.51	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.68	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.53	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.7	0.51	ng/L		01/29/20 13:33	01/29/20 21:03	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.66	ng/L		01/29/20 13:33	01/29/20 21:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	108		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C2 PFDoA	87		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C2 PFHxA	116		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C2 PFUnA	97		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C2 PFTeDA	86		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C3 PFBS	117		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C4 PFBA	125		25 - 150				01/29/20 13:33	01/29/20 21:03	1
13C4 PFOA	111		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C4 PFOS	115		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C4 PFHpA	127		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C5 PFNA	111		50 - 150				01/29/20 13:33	01/29/20 21:03	1
13C5 PFPeA	126		25 - 150				01/29/20 13:33	01/29/20 21:03	1
13C8 FOSA	79		25 - 150				01/29/20 13:33	01/29/20 21:03	1
18O2 PFHxS	118		50 - 150				01/29/20 13:33	01/29/20 21:03	1
d3-NMeFOSAA	77		50 - 150				01/29/20 13:33	01/29/20 21:03	1
d5-NEtFOSAA	71		50 - 150				01/29/20 13:33	01/29/20 21:03	1
M2-6:2 FTS	94		25 - 150				01/29/20 13:33	01/29/20 21:03	1
M2-8:2 FTS	91		25 - 150				01/29/20 13:33	01/29/20 21:03	1

Client Sample ID: 5-WAR-001-003-02

Lab Sample ID: 480-165581-2

Date Collected: 01/23/20 09:45

Matrix: Water

Date Received: 01/25/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5	ng/L		01/29/20 13:33	01/29/20 21:12	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-02

Lab Sample ID: 480-165581-2

Date Collected: 01/23/20 09:45

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.7	ng/L		01/29/20 13:33	01/29/20 21:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		01/29/20 13:33	01/29/20 21:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorobutanoic acid (PFBA)	ND		1.7	0.85	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.76	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.65	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.81	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.77	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.68	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.5	8.5	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.52	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.69	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.78	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.51	ng/L		01/29/20 13:33	01/29/20 21:12	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.66	ng/L		01/29/20 13:33	01/29/20 21:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	100		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C2 PFDoA	90		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C2 PFHxA	111		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C2 PFUnA	98		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C2 PFTeDA	84		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C3 PFBS	107		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C4 PFBA	113		25 - 150	01/29/20 13:33	01/29/20 21:12	1
13C4 PFOA	104		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C4 PFOS	106		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C4 PFHpA	111		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C5 PFNA	105		50 - 150	01/29/20 13:33	01/29/20 21:12	1
13C5 PFPeA	114		25 - 150	01/29/20 13:33	01/29/20 21:12	1
13C8 FOSA	73		25 - 150	01/29/20 13:33	01/29/20 21:12	1
18O2 PFHxS	105		50 - 150	01/29/20 13:33	01/29/20 21:12	1
d3-NMeFOSAA	73		50 - 150	01/29/20 13:33	01/29/20 21:12	1
d5-NEtFOSAA	78		50 - 150	01/29/20 13:33	01/29/20 21:12	1
M2-6:2 FTS	80		25 - 150	01/29/20 13:33	01/29/20 21:12	1
M2-8:2 FTS	94		25 - 150	01/29/20 13:33	01/29/20 21:12	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-03

Lab Sample ID: 480-165581-3

Date Collected: 01/23/20 09:50

Matrix: Water

Date Received: 01/25/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.6	ng/L		01/29/20 13:33	01/29/20 21:20	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.9	ng/L		01/29/20 13:33	01/29/20 21:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.3	ng/L		01/29/20 13:33	01/29/20 21:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.43	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorobutanoic acid (PFBA)	ND		1.8	0.89	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.80	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.68	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.84	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.81	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.71	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.67	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.9	8.9	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.72	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.56	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		01/29/20 13:33	01/29/20 21:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.69	ng/L		01/29/20 13:33	01/29/20 21:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	97		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C2 PFDoA	88		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C2 PFHxA	122		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C2 PFUnA	100		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C2 PFTeDA	90		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C3 PFBS	110		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C4 PFBA	111		25 - 150	01/29/20 13:33	01/29/20 21:20	1
13C4 PFOA	110		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C4 PFOS	106		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C4 PFHpA	110		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C5 PFNA	110		50 - 150	01/29/20 13:33	01/29/20 21:20	1
13C5 PFPeA	118		25 - 150	01/29/20 13:33	01/29/20 21:20	1
13C8 FOSA	85		25 - 150	01/29/20 13:33	01/29/20 21:20	1
18O2 PFHxS	113		50 - 150	01/29/20 13:33	01/29/20 21:20	1
d3-NMeFOSAA	78		50 - 150	01/29/20 13:33	01/29/20 21:20	1
d5-NEtFOSAA	77		50 - 150	01/29/20 13:33	01/29/20 21:20	1
M2-6:2 FTS	92		25 - 150	01/29/20 13:33	01/29/20 21:20	1
M2-8:2 FTS	94		25 - 150	01/29/20 13:33	01/29/20 21:20	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-04

Lab Sample ID: 480-165581-4

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 10:46	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 10:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 10:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 10:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 10:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 10:46	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 10:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 10:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 10:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 10:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 10:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 10:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 10:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 10:46	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 10:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 10:46	1
Acetone	ND		10	3.0	ug/L			01/31/20 10:46	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 10:46	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 10:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 10:46	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 10:46	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 10:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 10:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 10:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 10:46	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 10:46	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 10:46	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 10:46	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 10:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 10:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 10:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 10:46	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 10:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 10:46	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 10:46	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 10:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 10:46	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 10:46	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 10:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 10:46	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 10:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 10:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 10:46	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 10:46	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 10:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 10:46	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 10:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 10:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 10:46	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-04

Lab Sample ID: 480-165581-4

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		01/31/20 10:46	1
4-Bromofluorobenzene (Surr)	104		73 - 120		01/31/20 10:46	1
Dibromofluoromethane (Surr)	105		75 - 123		01/31/20 10:46	1
Toluene-d8 (Surr)	105		80 - 120		01/31/20 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.21		0.19	0.095	ug/L		01/27/20 08:56	01/28/20 19:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				01/27/20 08:56	01/28/20 19:23	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 04:41	1
Acenaphthylene	ND		0.50	0.34	ug/L		01/27/20 15:41	01/29/20 04:41	1
Anthracene	ND		0.50	0.39	ug/L		01/27/20 15:41	01/29/20 04:41	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		01/27/20 15:41	01/29/20 04:41	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 04:41	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 04:41	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 04:41	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		01/27/20 15:41	01/29/20 04:41	1
Chrysene	ND		0.50	0.32	ug/L		01/27/20 15:41	01/29/20 04:41	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 04:41	1
Fluoranthene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 04:41	1
Fluorene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 04:41	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		01/27/20 15:41	01/29/20 04:41	1
Naphthalene	ND		0.50	0.42	ug/L		01/27/20 15:41	01/29/20 04:41	1
Phenanthrene	ND		0.50	0.38	ug/L		01/27/20 15:41	01/29/20 04:41	1
Pyrene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		48 - 120	01/27/20 15:41	01/29/20 04:41	1
Nitrobenzene-d5	91		46 - 120	01/27/20 15:41	01/29/20 04:41	1
p-Terphenyl-d14	61		24 - 136	01/27/20 15:41	01/29/20 04:41	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.5	ng/L		01/29/20 13:33	01/29/20 21:28	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.8	ng/L		01/29/20 13:33	01/29/20 21:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.3	ng/L		01/29/20 13:33	01/29/20 21:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.8	0.43	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorobutanoic acid (PFBA)	3.5		1.8	0.88	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.79	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.67	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		01/29/20 13:33	01/29/20 21:28	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-04

Lab Sample ID: 480-165581-4

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	0.83	J	1.8	0.83	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluoroheptanoic acid (PFHpA)	7.8		1.8	0.80	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorohexanesulfonic acid (PFHxS)	25		1.8	0.70	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorohexanoic acid (PFHxA)	3.2		1.8	0.67	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorononanoic acid (PFNA)	0.29	J B	1.8	0.24	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.8	8.8	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorooctanesulfonic acid (PFOS)	4.6	I	1.8	0.53	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorooctanoic acid (PFOA)	210		1.8	0.71	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluoropentanoic acid (PFPeA)	3.5		1.8	0.55	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		01/29/20 13:33	01/29/20 21:28	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.68	ng/L		01/29/20 13:33	01/29/20 21:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	87		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C2 PFDoA	85		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C2 PFHxA	107		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C2 PFUnA	89		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C2 PFTeDA	86		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C3 PFBS	109		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C4 PFBA	105		25 - 150				01/29/20 13:33	01/29/20 21:28	1
13C4 PFOA	104		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C4 PFOS	100		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C4 PFHpA	118		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C5 PFNA	110		50 - 150				01/29/20 13:33	01/29/20 21:28	1
13C5 PFPeA	109		25 - 150				01/29/20 13:33	01/29/20 21:28	1
13C8 FOSA	95		25 - 150				01/29/20 13:33	01/29/20 21:28	1
18O2 PFHxS	103		50 - 150				01/29/20 13:33	01/29/20 21:28	1
d3-NMeFOSAA	69		50 - 150				01/29/20 13:33	01/29/20 21:28	1
d5-NEtFOSAA	74		50 - 150				01/29/20 13:33	01/29/20 21:28	1
M2-6:2 FTS	88		25 - 150				01/29/20 13:33	01/29/20 21:28	1
M2-8:2 FTS	87		25 - 150				01/29/20 13:33	01/29/20 21:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		01/27/20 07:38	01/27/20 20:36	1
Antimony	ND		0.020	0.0068	mg/L		01/27/20 07:38	01/27/20 20:36	1
Arsenic	ND		0.015	0.0056	mg/L		01/27/20 07:38	01/27/20 20:36	1
Barium	0.13		0.0020	0.00070	mg/L		01/27/20 07:38	01/27/20 20:36	1
Beryllium	ND		0.0020	0.00030	mg/L		01/27/20 07:38	01/27/20 20:36	1
Boron	0.034		0.020	0.0040	mg/L		01/27/20 07:38	01/27/20 20:36	1
Cadmium	ND		0.0020	0.00050	mg/L		01/27/20 07:38	01/27/20 20:36	1
Calcium	197		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 20:36	1
Chromium	ND		0.0040	0.0010	mg/L		01/27/20 07:38	01/27/20 20:36	1
Cobalt	0.00082	J	0.0040	0.00063	mg/L		01/27/20 07:38	01/27/20 20:36	1
Copper	ND		0.010	0.0016	mg/L		01/27/20 07:38	01/27/20 20:36	1
Iron	0.21		0.050	0.019	mg/L		01/27/20 07:38	01/29/20 19:40	1
Lead	ND		0.010	0.0030	mg/L		01/27/20 07:38	01/27/20 20:36	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-04

Lab Sample ID: 480-165581-4

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	31.9		0.20	0.043	mg/L		01/27/20 07:38	01/27/20 20:36	1
Manganese	0.37		0.0030	0.00040	mg/L		01/27/20 07:38	01/27/20 20:36	1
Nickel	0.012		0.010	0.0013	mg/L		01/27/20 07:38	01/27/20 20:36	1
Potassium	5.0		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 20:36	1
Selenium	ND		0.025	0.0087	mg/L		01/27/20 07:38	01/29/20 19:40	1
Silver	ND		0.0060	0.0017	mg/L		01/27/20 07:38	01/27/20 20:36	1
Sodium	2.2		1.0	0.32	mg/L		01/27/20 07:38	01/27/20 20:36	1
Thallium	ND		0.020	0.010	mg/L		01/27/20 07:38	01/27/20 20:36	1
Vanadium	ND		0.0050	0.0015	mg/L		01/27/20 07:38	01/27/20 20:36	1
Zinc	ND		0.010	0.0015	mg/L		01/27/20 07:38	01/27/20 20:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/28/20 11:50	01/28/20 15:26	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	623		0.50	0.10	mg/L			01/30/20 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			01/29/20 00:28	5
Chloride	1.4	J	2.5	1.4	mg/L			01/29/20 00:28	5
Sulfate	72.2		10.0	1.7	mg/L			01/29/20 00:28	5
Ammonia	0.027		0.020	0.0090	mg/L			01/27/20 11:30	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			01/29/20 12:20	1
Total Organic Carbon	3.9		1.0	0.43	mg/L			01/28/20 16:55	1
Alkalinity, Total	571	B	5.0	0.79	mg/L			01/31/20 21:20	1
Total Dissolved Solids	722		10.0	4.0	mg/L			01/27/20 12:32	1

Client Sample ID: 5-WAR-001-003-05

Lab Sample ID: 480-165581-5

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 11:09	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 11:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 11:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 11:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 11:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 11:09	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 11:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 11:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 11:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 11:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 11:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 11:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 11:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 11:09	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 11:09	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-05

Lab Sample ID: 480-165581-5

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 11:09	1
Acetone	ND		10	3.0	ug/L			01/31/20 11:09	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 11:09	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 11:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 11:09	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 11:09	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 11:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 11:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 11:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 11:09	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 11:09	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 11:09	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 11:09	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 11:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 11:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 11:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 11:09	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 11:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 11:09	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 11:09	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 11:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 11:09	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 11:09	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 11:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 11:09	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 11:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 11:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 11:09	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 11:09	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 11:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 11:09	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 11:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 11:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 11:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		01/31/20 11:09	1
4-Bromofluorobenzene (Surr)	105		73 - 120		01/31/20 11:09	1
Dibromofluoromethane (Surr)	105		75 - 123		01/31/20 11:09	1
Toluene-d8 (Surr)	105		80 - 120		01/31/20 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.22		0.19	0.097	ug/L		01/27/20 08:56	01/28/20 19:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110				01/27/20 08:56	01/28/20 19:46	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 05:09	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-05

Lab Sample ID: 480-165581-5

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		0.50	0.34	ug/L		01/27/20 15:41	01/29/20 05:09	1
Anthracene	ND		0.50	0.39	ug/L		01/27/20 15:41	01/29/20 05:09	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		01/27/20 15:41	01/29/20 05:09	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 05:09	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 05:09	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 05:09	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		01/27/20 15:41	01/29/20 05:09	1
Chrysene	ND		0.50	0.32	ug/L		01/27/20 15:41	01/29/20 05:09	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 05:09	1
Fluoranthene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 05:09	1
Fluorene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 05:09	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		01/27/20 15:41	01/29/20 05:09	1
Naphthalene	ND		0.50	0.42	ug/L		01/27/20 15:41	01/29/20 05:09	1
Phenanthrene	ND		0.50	0.38	ug/L		01/27/20 15:41	01/29/20 05:09	1
Pyrene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		48 - 120	01/27/20 15:41	01/29/20 05:09	1
Nitrobenzene-d5	87		46 - 120	01/27/20 15:41	01/29/20 05:09	1
p-Terphenyl-d14	58		24 - 136	01/27/20 15:41	01/29/20 05:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.4	ng/L		01/29/20 13:33	01/29/20 21:36	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.6	ng/L		01/29/20 13:33	01/29/20 21:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		01/29/20 13:33	01/29/20 21:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorobutanesulfonic acid (PFBS)	0.96	J	1.7	0.41	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorobutanoic acid (PFBA)	3.5		1.7	0.84	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.75	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.65	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.95	J	1.7	0.80	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluoroheptanoic acid (PFHpA)	8.5		1.7	0.76	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorohexanesulfonic acid (PFHxS)	23		1.7	0.67	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorohexanoic acid (PFHxA)	3.5		1.7	0.64	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorononanoic acid (PFNA)	0.35	J B	1.7	0.23	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.4	8.4	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorooctanesulfonic acid (PFOS)	5.0		1.7	0.51	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorooctanoic acid (PFOA)	210		1.7	0.68	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluoropentanoic acid (PFPeA)	3.2		1.7	0.53	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50	ng/L		01/29/20 13:33	01/29/20 21:36	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.65	ng/L		01/29/20 13:33	01/29/20 21:36	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-05

Lab Sample ID: 480-165581-5

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	90		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C2 PFDoA	77		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C2 PFHxA	112		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C2 PFUnA	90		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C2 PFTeDA	83		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C3 PFBS	111		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C4 PFBA	106		25 - 150	01/29/20 13:33	01/29/20 21:36	1
13C4 PFOA	101		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C4 PFOS	99		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C4 PFHpA	119		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C5 PFNA	112		50 - 150	01/29/20 13:33	01/29/20 21:36	1
13C5 PFPeA	112		25 - 150	01/29/20 13:33	01/29/20 21:36	1
13C8 FOSA	83		25 - 150	01/29/20 13:33	01/29/20 21:36	1
18O2 PFHxS	118		50 - 150	01/29/20 13:33	01/29/20 21:36	1
d3-NMeFOSAA	78		50 - 150	01/29/20 13:33	01/29/20 21:36	1
d5-NEtFOSAA	79		50 - 150	01/29/20 13:33	01/29/20 21:36	1
M2-6:2 FTS	87		25 - 150	01/29/20 13:33	01/29/20 21:36	1
M2-8:2 FTS	86		25 - 150	01/29/20 13:33	01/29/20 21:36	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		01/27/20 07:38	01/27/20 20:40	1
Antimony	ND		0.020	0.0068	mg/L		01/27/20 07:38	01/27/20 20:40	1
Arsenic	ND		0.015	0.0056	mg/L		01/27/20 07:38	01/27/20 20:40	1
Barium	0.13		0.0020	0.00070	mg/L		01/27/20 07:38	01/27/20 20:40	1
Beryllium	ND		0.0020	0.00030	mg/L		01/27/20 07:38	01/27/20 20:40	1
Boron	0.034		0.020	0.0040	mg/L		01/27/20 07:38	01/27/20 20:40	1
Cadmium	ND		0.0020	0.00050	mg/L		01/27/20 07:38	01/27/20 20:40	1
Calcium	197		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 20:40	1
Chromium	0.012		0.0040	0.0010	mg/L		01/27/20 07:38	01/27/20 20:40	1
Cobalt	ND		0.0040	0.00063	mg/L		01/27/20 07:38	01/27/20 20:40	1
Copper	ND		0.010	0.0016	mg/L		01/27/20 07:38	01/27/20 20:40	1
Iron	0.25		0.050	0.019	mg/L		01/27/20 07:38	01/29/20 19:44	1
Lead	ND		0.010	0.0030	mg/L		01/27/20 07:38	01/27/20 20:40	1
Magnesium	32.1		0.20	0.043	mg/L		01/27/20 07:38	01/27/20 20:40	1
Manganese	0.35		0.0030	0.00040	mg/L		01/27/20 07:38	01/27/20 20:40	1
Nickel	0.017		0.010	0.0013	mg/L		01/27/20 07:38	01/27/20 20:40	1
Potassium	5.0		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 20:40	1
Selenium	ND		0.025	0.0087	mg/L		01/27/20 07:38	01/29/20 19:44	1
Silver	ND		0.0060	0.0017	mg/L		01/27/20 07:38	01/27/20 20:40	1
Sodium	2.2		1.0	0.32	mg/L		01/27/20 07:38	01/27/20 20:40	1
Thallium	ND		0.020	0.010	mg/L		01/27/20 07:38	01/27/20 20:40	1
Vanadium	ND		0.0050	0.0015	mg/L		01/27/20 07:38	01/27/20 20:40	1
Zinc	ND		0.010	0.0015	mg/L		01/27/20 07:38	01/27/20 20:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/28/20 11:50	01/28/20 15:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-05

Lab Sample ID: 480-165581-5

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	625		0.50	0.10	mg/L			01/30/20 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			01/29/20 13:22	5
Chloride	ND		2.5	1.4	mg/L			01/29/20 13:22	5
Sulfate	68.8		10.0	1.7	mg/L			01/29/20 13:22	5
Ammonia	0.032		0.020	0.0090	mg/L			01/27/20 11:31	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			01/29/20 12:20	1
Total Organic Carbon	4.0		1.0	0.43	mg/L			01/28/20 17:49	1
Alkalinity, Total	572	B	5.0	0.79	mg/L			01/31/20 21:28	1
Total Dissolved Solids	762		10.0	4.0	mg/L			01/27/20 12:32	1

Client Sample ID: 5-WAR-001-003-06

Lab Sample ID: 480-165581-6

Date Collected: 01/23/20 16:30

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 11:32	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 11:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 11:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 11:32	1
1,1-Dichloroethane	0.38	J	1.0	0.38	ug/L			01/31/20 11:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 11:32	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 11:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 11:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 11:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 11:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 11:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 11:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 11:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 11:32	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 11:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 11:32	1
Acetone	ND		10	3.0	ug/L			01/31/20 11:32	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 11:32	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 11:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 11:32	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 11:32	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 11:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 11:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 11:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 11:32	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 11:32	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 11:32	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 11:32	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 11:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 11:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 11:32	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-06

Lab Sample ID: 480-165581-6

Date Collected: 01/23/20 16:30

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 11:32	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 11:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 11:32	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 11:32	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 11:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 11:32	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 11:32	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 11:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 11:32	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 11:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 11:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 11:32	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 11:32	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 11:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 11:32	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 11:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 11:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/31/20 11:32	1
4-Bromofluorobenzene (Surr)	104		73 - 120		01/31/20 11:32	1
Dibromofluoromethane (Surr)	104		75 - 123		01/31/20 11:32	1
Toluene-d8 (Surr)	105		80 - 120		01/31/20 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.0	E	0.95	0.48	ug/L	-	01/27/20 08:56	01/29/20 13:33	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				01/27/20 08:56	01/29/20 13:33	5

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 05:37	1
Acenaphthylene	ND		0.50	0.34	ug/L		01/27/20 15:41	01/29/20 05:37	1
Anthracene	ND		0.50	0.39	ug/L		01/27/20 15:41	01/29/20 05:37	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		01/27/20 15:41	01/29/20 05:37	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 05:37	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 05:37	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 05:37	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		01/27/20 15:41	01/29/20 05:37	1
Chrysene	ND		0.50	0.32	ug/L		01/27/20 15:41	01/29/20 05:37	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 05:37	1
Fluoranthene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 05:37	1
Fluorene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 05:37	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		01/27/20 15:41	01/29/20 05:37	1
Naphthalene	ND		0.50	0.42	ug/L		01/27/20 15:41	01/29/20 05:37	1
Phenanthrene	ND		0.50	0.38	ug/L		01/27/20 15:41	01/29/20 05:37	1
Pyrene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 05:37	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-06

Lab Sample ID: 480-165581-6

Date Collected: 01/23/20 16:30

Matrix: Water

Date Received: 01/25/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		48 - 120	01/27/20 15:41	01/29/20 05:37	1
Nitrobenzene-d5	89		46 - 120	01/27/20 15:41	01/29/20 05:37	1
p-Terphenyl-d14	63		24 - 136	01/27/20 15:41	01/29/20 05:37	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.6	ng/L		01/29/20 13:33	01/29/20 21:44	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	5.0	ng/L		01/29/20 13:33	01/29/20 21:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.4	ng/L		01/29/20 13:33	01/29/20 21:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.8	0.45	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorobutanoic acid (PFBA)	10		1.8	0.91	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.82	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.70	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.54	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.87	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluoroheptanoic acid (PFHpA)	5.2		1.8	0.83	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorohexanesulfonic acid (PFHxS)	2.4		1.8	0.73	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorohexanoic acid (PFHxA)	11		1.8	0.69	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.1	9.1	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorooctanesulfonic acid (PFOS)	0.79	J	1.8	0.56	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorooctanoic acid (PFOA)	17		1.8	0.74	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluoropentanoic acid (PFPeA)	5.6		1.8	0.57	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.84	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.55	ng/L		01/29/20 13:33	01/29/20 21:44	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.71	ng/L		01/29/20 13:33	01/29/20 21:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	92		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C2 PFDoA	88		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C2 PFHxA	106		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C2 PFUnA	87		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C2 PFTeDA	88		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C3 PFBS	101		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C4 PFBA	91		25 - 150				01/29/20 13:33	01/29/20 21:44	1
13C4 PFOA	105		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C4 PFOS	104		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C4 PFHpA	112		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C5 PFNA	100		50 - 150				01/29/20 13:33	01/29/20 21:44	1
13C5 PFPeA	105		25 - 150				01/29/20 13:33	01/29/20 21:44	1
13C8 FOSA	86		25 - 150				01/29/20 13:33	01/29/20 21:44	1
18O2 PFHxS	106		50 - 150				01/29/20 13:33	01/29/20 21:44	1
d3-NMeFOSAA	82		50 - 150				01/29/20 13:33	01/29/20 21:44	1
d5-NEtFOSAA	83		50 - 150				01/29/20 13:33	01/29/20 21:44	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-06

Lab Sample ID: 480-165581-6

Date Collected: 01/23/20 16:30

Matrix: Water

Date Received: 01/25/20 08:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	91		25 - 150	01/29/20 13:33	01/29/20 21:44	1
M2-8:2 FTS	94		25 - 150	01/29/20 13:33	01/29/20 21:44	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		01/27/20 07:38	01/27/20 20:44	1
Antimony	ND		0.020	0.0068	mg/L		01/27/20 07:38	01/27/20 20:44	1
Arsenic	ND		0.015	0.0056	mg/L		01/27/20 07:38	01/27/20 20:44	1
Barium	0.18		0.0020	0.00070	mg/L		01/27/20 07:38	01/27/20 20:44	1
Beryllium	ND		0.0020	0.00030	mg/L		01/27/20 07:38	01/27/20 20:44	1
Boron	0.21		0.020	0.0040	mg/L		01/27/20 07:38	01/27/20 20:44	1
Cadmium	ND		0.0020	0.00050	mg/L		01/27/20 07:38	01/27/20 20:44	1
Calcium	178		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 20:44	1
Chromium	ND		0.0040	0.0010	mg/L		01/27/20 07:38	01/27/20 20:44	1
Cobalt	0.0088		0.0040	0.00063	mg/L		01/27/20 07:38	01/27/20 20:44	1
Copper	ND		0.010	0.0016	mg/L		01/27/20 07:38	01/27/20 20:44	1
Iron	0.93		0.050	0.019	mg/L		01/27/20 07:38	01/29/20 19:48	1
Lead	ND		0.010	0.0030	mg/L		01/27/20 07:38	01/27/20 20:44	1
Magnesium	63.1		0.20	0.043	mg/L		01/27/20 07:38	01/27/20 20:44	1
Manganese	1.4		0.0030	0.00040	mg/L		01/27/20 07:38	01/27/20 20:44	1
Nickel	0.016		0.010	0.0013	mg/L		01/27/20 07:38	01/27/20 20:44	1
Potassium	11.3		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 20:44	1
Selenium	ND		0.025	0.0087	mg/L		01/27/20 07:38	01/29/20 19:48	1
Silver	ND		0.0060	0.0017	mg/L		01/27/20 07:38	01/27/20 20:44	1
Sodium	41.9		1.0	0.32	mg/L		01/27/20 07:38	01/27/20 20:44	1
Thallium	ND		0.020	0.010	mg/L		01/27/20 07:38	01/27/20 20:44	1
Vanadium	ND		0.0050	0.0015	mg/L		01/27/20 07:38	01/27/20 20:44	1
Zinc	0.0036	J	0.010	0.0015	mg/L		01/27/20 07:38	01/27/20 20:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/28/20 11:50	01/28/20 15:31	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	704		0.50	0.10	mg/L			01/30/20 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			01/29/20 13:36	5
Chloride	77.5		2.5	1.4	mg/L			01/29/20 13:36	5
Sulfate	70.7		10.0	1.7	mg/L			01/29/20 13:36	5
Ammonia	2.8		0.040	0.018	mg/L			01/27/20 11:45	2
Chemical Oxygen Demand	13.6		10.0	5.0	mg/L			01/29/20 12:20	1
Total Organic Carbon	4.0		1.0	0.43	mg/L			01/28/20 19:36	1
Alkalinity, Total	620	B	5.0	0.79	mg/L			01/31/20 21:49	1
Total Dissolved Solids	895		10.0	4.0	mg/L			01/27/20 12:32	1

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Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-07

Lab Sample ID: 480-165581-7

Date Collected: 01/23/20 00:00

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 11:55	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 11:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 11:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 11:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 11:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 11:55	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 11:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 11:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 11:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 11:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 11:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 11:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 11:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 11:55	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 11:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 11:55	1
Acetone	ND		10	3.0	ug/L			01/31/20 11:55	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 11:55	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 11:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 11:55	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 11:55	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 11:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 11:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 11:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 11:55	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 11:55	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 11:55	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 11:55	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 11:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 11:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 11:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 11:55	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 11:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 11:55	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 11:55	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 11:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 11:55	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 11:55	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 11:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 11:55	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 11:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 11:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 11:55	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 11:55	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 11:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 11:55	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 11:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 11:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 11:55	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-07

Lab Sample ID: 480-165581-7

Date Collected: 01/23/20 00:00

Matrix: Water

Date Received: 01/25/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		01/31/20 11:55	1
4-Bromofluorobenzene (Surr)	106		73 - 120		01/31/20 11:55	1
Dibromofluoromethane (Surr)	104		75 - 123		01/31/20 11:55	1
Toluene-d8 (Surr)	107		80 - 120		01/31/20 11:55	1

Client Sample ID: 5-WAR-001-004-01

Lab Sample ID: 480-165586-1

Date Collected: 01/24/20 11:05

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 22:44	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 22:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 22:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 22:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 22:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 22:44	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 22:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 22:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 22:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 22:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 22:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 22:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 22:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 22:44	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 22:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 22:44	1
Acetone	ND		10	3.0	ug/L			01/31/20 22:44	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 22:44	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 22:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 22:44	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 22:44	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 22:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 22:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 22:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 22:44	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 22:44	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 22:44	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 22:44	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 22:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 22:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 22:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 22:44	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 22:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 22:44	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 22:44	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 22:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 22:44	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 22:44	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 22:44	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-004-01

Lab Sample ID: 480-165586-1

Date Collected: 01/24/20 11:05

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 22:44	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 22:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 22:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 22:44	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 22:44	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 22:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 22:44	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 22:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 22:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		01/31/20 22:44	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/31/20 22:44	1
Dibromofluoromethane (Surr)	94		75 - 123		01/31/20 22:44	1
Toluene-d8 (Surr)	103		80 - 120		01/31/20 22:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.57		0.19	0.095	ug/L		01/27/20 08:56	01/28/20 20:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110	01/27/20 08:56	01/28/20 20:32	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 06:06	1
Acenaphthylene	ND		0.50	0.34	ug/L		01/27/20 15:41	01/29/20 06:06	1
Anthracene	ND		0.50	0.39	ug/L		01/27/20 15:41	01/29/20 06:06	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		01/27/20 15:41	01/29/20 06:06	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 06:06	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 06:06	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 06:06	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		01/27/20 15:41	01/29/20 06:06	1
Chrysene	ND		0.50	0.32	ug/L		01/27/20 15:41	01/29/20 06:06	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 06:06	1
Fluoranthene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 06:06	1
Fluorene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 06:06	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		01/27/20 15:41	01/29/20 06:06	1
Naphthalene	ND		0.50	0.42	ug/L		01/27/20 15:41	01/29/20 06:06	1
Phenanthrene	ND		0.50	0.38	ug/L		01/27/20 15:41	01/29/20 06:06	1
Pyrene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		48 - 120	01/27/20 15:41	01/29/20 06:06	1
Nitrobenzene-d5	88		46 - 120	01/27/20 15:41	01/29/20 06:06	1
p-Terphenyl-d14	64		24 - 136	01/27/20 15:41	01/29/20 06:06	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.6	ng/L		01/29/20 13:33	01/29/20 21:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-004-01

Lab Sample ID: 480-165586-1

Date Collected: 01/24/20 11:05

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.9	ng/L		01/29/20 13:33	01/29/20 21:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.3	ng/L		01/29/20 13:33	01/29/20 21:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorobutanesulfonic acid (PFBS)	0.97	J	1.8	0.43	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorobutanoic acid (PFBA)	6.0		1.8	0.89	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.80	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.68	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.84	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.8	0.81	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorohexanesulfonic acid (PFHxS)	0.77	J	1.8	0.71	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorohexanoic acid (PFHxA)	2.6		1.8	0.67	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorononanoic acid (PFNA)	0.48	J B	1.8	0.24	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.9	8.9	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorooctanesulfonic acid (PFOS)	5.1		1.8	0.54	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorooctanoic acid (PFOA)	8.5		1.8	0.72	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluoropentanoic acid (PFPeA)	2.3		1.8	0.56	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		01/29/20 13:33	01/29/20 21:52	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.69	ng/L		01/29/20 13:33	01/29/20 21:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	85		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C2 PFDoA	100		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C2 PFHxA	109		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C2 PFUnA	88		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C2 PFTeDA	93		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C3 PFBS	108		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C4 PFBA	86		25 - 150	01/29/20 13:33	01/29/20 21:52	1
13C4 PFOA	105		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C4 PFOS	99		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C4 PFHpA	119		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C5 PFNA	101		50 - 150	01/29/20 13:33	01/29/20 21:52	1
13C5 PFPeA	106		25 - 150	01/29/20 13:33	01/29/20 21:52	1
13C8 FOSA	88		25 - 150	01/29/20 13:33	01/29/20 21:52	1
18O2 PFHxS	118		50 - 150	01/29/20 13:33	01/29/20 21:52	1
d3-NMeFOSAA	84		50 - 150	01/29/20 13:33	01/29/20 21:52	1
d5-NEtFOSAA	94		50 - 150	01/29/20 13:33	01/29/20 21:52	1
M2-6:2 FTS	87		25 - 150	01/29/20 13:33	01/29/20 21:52	1
M2-8:2 FTS	86		25 - 150	01/29/20 13:33	01/29/20 21:52	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.9		0.20	0.060	mg/L		01/27/20 07:38	01/27/20 14:14	1
Antimony	ND		0.020	0.0068	mg/L		01/27/20 07:38	01/27/20 14:14	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-004-01

Lab Sample ID: 480-165586-1

Date Collected: 01/24/20 11:05

Matrix: Water

Date Received: 01/25/20 08:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		01/27/20 07:38	01/27/20 14:14	1
Barium	0.043		0.0020	0.00070	mg/L		01/27/20 07:38	01/27/20 14:14	1
Beryllium	ND		0.0020	0.00030	mg/L		01/27/20 07:38	01/27/20 14:14	1
Boron	0.012	J	0.020	0.0040	mg/L		01/27/20 07:38	01/27/20 14:14	1
Cadmium	ND		0.0020	0.00050	mg/L		01/27/20 07:38	01/27/20 14:14	1
Calcium	95.7		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 14:14	1
Chromium	0.0017	J B	0.0040	0.0010	mg/L		01/27/20 07:38	01/27/20 14:14	1
Cobalt	0.0013	J	0.0040	0.00063	mg/L		01/27/20 07:38	01/27/20 14:14	1
Copper	0.0030	J	0.010	0.0016	mg/L		01/27/20 07:38	01/27/20 14:14	1
Iron	3.1		0.050	0.019	mg/L		01/27/20 07:38	01/27/20 14:14	1
Lead	0.0054	J	0.010	0.0030	mg/L		01/27/20 07:38	01/27/20 14:14	1
Magnesium	19.4		0.20	0.043	mg/L		01/27/20 07:38	01/27/20 14:14	1
Manganese	0.55		0.0030	0.00040	mg/L		01/27/20 07:38	01/27/20 14:14	1
Nickel	0.0025	J	0.010	0.0013	mg/L		01/27/20 07:38	01/27/20 14:14	1
Potassium	2.3		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 14:14	1
Selenium	ND		0.025	0.0087	mg/L		01/27/20 07:38	01/27/20 14:14	1
Silver	ND		0.0060	0.0017	mg/L		01/27/20 07:38	01/27/20 14:14	1
Sodium	1.8		1.0	0.32	mg/L		01/27/20 07:38	01/27/20 14:14	1
Thallium	ND		0.020	0.010	mg/L		01/27/20 07:38	01/27/20 14:14	1
Vanadium	0.0025	J	0.0050	0.0015	mg/L		01/27/20 07:38	01/27/20 14:14	1
Zinc	0.010		0.010	0.0015	mg/L		01/27/20 07:38	01/27/20 14:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/28/20 11:50	01/28/20 15:32	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	319		0.50	0.10	mg/L			01/29/20 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40	0.15	mg/L			01/29/20 13:54	2
Chloride	4.9		1.0	0.56	mg/L			01/29/20 13:54	2
Sulfate	6.6		4.0	0.70	mg/L			01/29/20 13:54	2
Ammonia	0.064		0.020	0.0090	mg/L			01/27/20 11:33	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			01/29/20 12:20	1
Total Organic Carbon	2.6		1.0	0.43	mg/L			01/28/20 20:03	1
Alkalinity, Total	313	B	5.0	0.79	mg/L			01/31/20 21:55	1
Total Dissolved Solids	394		10.0	4.0	mg/L			01/27/20 12:32	1

Client Sample ID: 5-WAR-001-004-02

Lab Sample ID: 480-165586-2

Date Collected: 01/24/20 11:40

Matrix: Water

Date Received: 01/25/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		16	2.3	ng/L		01/31/20 10:56	02/10/20 13:18	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		16	4.4	ng/L		01/31/20 10:56	02/10/20 13:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-004-02

Lab Sample ID: 480-165586-2

Date Collected: 01/24/20 11:40

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		16	1.2	ng/L		01/31/20 10:56	02/10/20 13:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.39	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorobutanoic acid (PFBA)	ND		1.6	0.81	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.72	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.62	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.76	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.73	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.64	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.61	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorononanoic acid (PFNA)	0.24	J	1.6	0.22	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.1	8.1	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.49	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.65	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluoropentanoic acid (PFPeA)	0.67	J	1.6	0.51	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.74	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.6	0.48	ng/L		01/31/20 10:56	02/10/20 13:18	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.63	ng/L		01/31/20 10:56	02/10/20 13:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	106		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C2 PFDoA	93		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C2 PFHxA	109		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C2 PFUnA	96		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C2 PFTeDA	85		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C3 PFBS	105		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C4 PFBA	109		25 - 150				01/31/20 10:56	02/10/20 13:18	1
13C4 PFOA	100		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C4 PFOS	98		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C4 PFHpA	97		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C5 PFNA	97		50 - 150				01/31/20 10:56	02/10/20 13:18	1
13C5 PFPeA	108		25 - 150				01/31/20 10:56	02/10/20 13:18	1
13C8 FOSA	81		25 - 150				01/31/20 10:56	02/10/20 13:18	1
18O2 PFHxS	105		50 - 150				01/31/20 10:56	02/10/20 13:18	1
d3-NMeFOSAA	94		50 - 150				01/31/20 10:56	02/10/20 13:18	1
d5-NEtFOSAA	92		50 - 150				01/31/20 10:56	02/10/20 13:18	1
M2-6:2 FTS	104		25 - 150				01/31/20 10:56	02/10/20 13:18	1
M2-8:2 FTS	96		25 - 150				01/31/20 10:56	02/10/20 13:18	1

Client Sample ID: 5-WAR-001-004-03

Lab Sample ID: 480-165586-3

Date Collected: 01/24/20 00:00

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 23:08	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 23:08	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-004-03

Lab Sample ID: 480-165586-3

Date Collected: 01/24/20 00:00

Matrix: Water

Date Received: 01/25/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 23:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 23:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 23:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 23:08	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 23:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 23:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 23:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 23:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 23:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 23:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 23:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 23:08	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 23:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 23:08	1
Acetone	ND		10	3.0	ug/L			01/31/20 23:08	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 23:08	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 23:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 23:08	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 23:08	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 23:08	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 23:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 23:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 23:08	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 23:08	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 23:08	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 23:08	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 23:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 23:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 23:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 23:08	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 23:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 23:08	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 23:08	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 23:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 23:08	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 23:08	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 23:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 23:08	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 23:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 23:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 23:08	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 23:08	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 23:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 23:08	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 23:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 23:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		01/31/20 23:08	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-004-03

Lab Sample ID: 480-165586-3

Date Collected: 01/24/20 00:00

Matrix: Water

Date Received: 01/25/20 08:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		73 - 120		01/31/20 23:08	1
Dibromofluoromethane (Surr)	93		75 - 123		01/31/20 23:08	1
Toluene-d8 (Surr)	101		80 - 120		01/31/20 23:08	1

Surrogate Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-165462-1	5-WAR-001-001-01	100	103	100	100
480-165462-4	5-WAR-001-001-04	101	102	101	99
480-165515-3	5-WAR-001-002-03	103	98	97	97
480-165515-3 MS	5-WAR-001-002-03	101	103	103	108
480-165515-3 MSD	5-WAR-001-002-03	100	101	102	106
480-165515-4	5-WAR-001-002-04	100	99	97	95
480-165581-4	5-WAR-001-003-04	102	104	105	105
480-165581-5	5-WAR-001-003-05	103	105	105	105
480-165581-6	5-WAR-001-003-06	101	104	104	105
480-165581-7	5-WAR-001-003-07	103	106	104	107
480-165586-1	5-WAR-001-004-01	100	99	94	103
480-165586-3	5-WAR-001-004-03	100	97	93	101
LCS 480-515054/5	Lab Control Sample	99	100	101	100
LCS 480-515680/6	Lab Control Sample	102	101	100	97
LCS 480-515681/5	Lab Control Sample	101	102	103	107
LCS 480-515811/5	Lab Control Sample	100	98	94	103
LCS 480-515831/5	Lab Control Sample	102	102	104	107
MB 480-515054/7	Method Blank	102	102	101	100
MB 480-515680/8	Method Blank	107	99	110	98
MB 480-515681/7	Method Blank	103	105	104	107
MB 480-515811/8	Method Blank	101	101	95	104
MB 480-515831/7	Method Blank	102	105	102	105

Surrogate Legend

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

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (48-120)	NBZ (46-120)	TPHd14 (24-136)
480-165462-1	5-WAR-001-001-01	100	94	68
480-165515-3	5-WAR-001-002-03	105	97	63
480-165515-3 MS	5-WAR-001-002-03	97	92	61
480-165515-3 MSD	5-WAR-001-002-03	97	92	59
480-165581-4	5-WAR-001-003-04	98	91	61
480-165581-5	5-WAR-001-003-05	94	87	58
480-165581-6	5-WAR-001-003-06	96	89	63
480-165586-1	5-WAR-001-004-01	94	88	64
LCS 480-515091/2-A	Lab Control Sample	97	90	94
MB 480-515091/1-A	Method Blank	95	86	85

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14

Isotope Dilution Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DXE (15-110)
480-165462-1	5-WAR-001-001-01	27
480-165515-3	5-WAR-001-002-03	28
480-165515-3 MS	5-WAR-001-002-03	29
480-165515-3 MSD	5-WAR-001-002-03	30
480-165581-4	5-WAR-001-003-04	30
480-165581-5	5-WAR-001-003-05	31
480-165581-6	5-WAR-001-003-06	28
480-165586-1	5-WAR-001-004-01	29
LCS 480-515019/2-A	Lab Control Sample	28
MB 480-515019/1-A	Method Blank	30
Surrogate Legend		
DXE = 1,4-Dioxane-d8		

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	PFDA (50-150)	PFDoA (50-150)	PFHxA (50-150)	PFUnA (50-150)	PFTDA (50-150)	3C3-PFBz (50-150)	PFBA (25-150)	PFOA (50-150)
480-165462-1	5-WAR-001-001-01	103	81	122	95	91	119	119	109
480-165462-2	5-WAR-001-001-02	117	103	129	105	101	119	127	115
480-165462-3	5-WAR-001-001-03	117	80	126	100	76	115	126	117
480-165515-1	5-WAR-001-002-01	95	84	112	107	97	109	119	108
480-165515-2	5-WAR-001-002-02	96	78	111	101	80	111	122	101
480-165515-3	5-WAR-001-002-03	103	92	113	96	94	114	116	114
480-165515-3 MS	5-WAR-001-002-03	84	78	116	89	90	109	115	104
480-165515-3 MSD	5-WAR-001-002-03	99	87	113	98	88	112	117	109
480-165581-1	5-WAR-001-003-01	108	87	116	97	86	117	125	111
480-165581-2	5-WAR-001-003-02	100	90	111	98	84	107	113	104
480-165581-3	5-WAR-001-003-03	97	88	122	100	90	110	111	110
480-165581-4	5-WAR-001-003-04	87	85	107	89	86	109	105	104
480-165581-5	5-WAR-001-003-05	90	77	112	90	83	111	106	101
480-165581-6	5-WAR-001-003-06	92	88	106	87	88	101	91	105
480-165586-1	5-WAR-001-004-01	85	100	109	88	93	108	86	105
480-165586-2	5-WAR-001-004-02	106	93	109	96	85	105	109	100
LCS 200-151845/2-A	Lab Control Sample	102	95	120	99	91	116	121	108
LCS 200-151852/2-A	Lab Control Sample	104	84	118	102	88	118	111	106
LCS 200-151925/2-A	Lab Control Sample	110	71	94	88	76	93	97	95
MB 200-151845/1-A	Method Blank	101	75	115	92	73	116	122	107
MB 200-151852/1-A	Method Blank	91	82	121	93	88	108	119	110
MB 200-151925/1-A	Method Blank	98	85	98	93	83	98	104	98
Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	PFOS (50-150)	PFHpA (50-150)	PFNA (50-150)	PFPeA (25-150)	PFOSA (25-150)	PFHxS (50-150)	-NMeFOS/ (50-150)	-NEtFOS/ (50-150)
480-165462-1	5-WAR-001-001-01	109	123	108	122	90	115	83	83
480-165462-2	5-WAR-001-001-02	119	134	123	131	90	121	89	86
480-165462-3	5-WAR-001-001-03	120	120	118	127	64	118	71	73
480-165515-1	5-WAR-001-002-01	99	113	101	115	83	108	76	82
480-165515-2	5-WAR-001-002-02	105	112	100	112	82	105	71	79

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Isotope Dilution Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOS (50-150)	PFHpA (50-150)	PFNA (50-150)	PFPeA (25-150)	PFOSA (25-150)	PFHxS (50-150)	-NMeFOS/ (50-150)	-NEtFOS/ (50-150)
480-165515-3	5-WAR-001-002-03	104	118	111	121	92	109	81	91
480-165515-3 MS	5-WAR-001-002-03	102	113	102	118	81	111	73	77
480-165515-3 MSD	5-WAR-001-002-03	105	117	101	113	82	113	76	81
480-165581-1	5-WAR-001-003-01	115	127	111	126	79	118	77	71
480-165581-2	5-WAR-001-003-02	106	111	105	114	73	105	73	78
480-165581-3	5-WAR-001-003-03	106	110	110	118	85	113	78	77
480-165581-4	5-WAR-001-003-04	100	118	110	109	95	103	69	74
480-165581-5	5-WAR-001-003-05	99	119	112	112	83	118	78	79
480-165581-6	5-WAR-001-003-06	104	112	100	105	86	106	82	83
480-165586-1	5-WAR-001-004-01	99	119	101	106	88	118	84	94
480-165586-2	5-WAR-001-004-02	98	97	97	108	81	105	94	92
LCS 200-151845/2-A	Lab Control Sample	114	123	110	119	84	117	86	81
LCS 200-151852/2-A	Lab Control Sample	100	112	106	115	76	114	79	83
LCS 200-151925/2-A	Lab Control Sample	92	92	96	96	72	92	94	77
MB 200-151845/1-A	Method Blank	103	115	107	122	70	113	83	74
MB 200-151852/1-A	Method Blank	103	112	104	114	73	108	80	81
MB 200-151925/1-A	Method Blank	89	105	99	106	80	102	94	82

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-165462-1	5-WAR-001-001-01	94	93
480-165462-2	5-WAR-001-001-02	108	112
480-165462-3	5-WAR-001-001-03	93	97
480-165515-1	5-WAR-001-002-01	90	89
480-165515-2	5-WAR-001-002-02	88	100
480-165515-3	5-WAR-001-002-03	95	102
480-165515-3 MS	5-WAR-001-002-03	96	85
480-165515-3 MSD	5-WAR-001-002-03	88	85
480-165581-1	5-WAR-001-003-01	94	91
480-165581-2	5-WAR-001-003-02	80	94
480-165581-3	5-WAR-001-003-03	92	94
480-165581-4	5-WAR-001-003-04	88	87
480-165581-5	5-WAR-001-003-05	87	86
480-165581-6	5-WAR-001-003-06	91	94
480-165586-1	5-WAR-001-004-01	87	86
480-165586-2	5-WAR-001-004-02	104	96
LCS 200-151845/2-A	Lab Control Sample	89	95
LCS 200-151852/2-A	Lab Control Sample	88	90
LCS 200-151925/2-A	Lab Control Sample	99	95
MB 200-151845/1-A	Method Blank	89	95
MB 200-151852/1-A	Method Blank	81	95
MB 200-151925/1-A	Method Blank	103	96

Surrogate Legend

PFDA = 13C2 PFDA
PFDaA = 13C2 PFDaA
PFHxA = 13C2 PFHxA
PFUnA = 13C2 PFUnA
PFTDA = 13C2 PFTeDA
13C3-PFBS = 13C3 PFBS

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Isotope Dilution Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

PFBA = 13C4 PFBA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFHpA = 13C4 PFHpA
PFNA = 13C5 PFNA
PFPeA = 13C5 PFPeA
PFOSA = 13C8 FOSA
PFHxS = 18O2 PFHxS
d3-NMeFOSAA = d3-NMeFOSAA
d5-NEtFOSAA = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 480-515054/7

Matrix: Water

Analysis Batch: 515054

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/27/20 13:33	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/27/20 13:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/27/20 13:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/27/20 13:33	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/27/20 13:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/27/20 13:33	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/27/20 13:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/27/20 13:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/27/20 13:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/27/20 13:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/27/20 13:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/27/20 13:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/27/20 13:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/27/20 13:33	1
2-Hexanone	ND		5.0	1.2	ug/L			01/27/20 13:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/27/20 13:33	1
Acetone	ND		10	3.0	ug/L			01/27/20 13:33	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/27/20 13:33	1
Benzene	ND		1.0	0.41	ug/L			01/27/20 13:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/27/20 13:33	1
Bromoform	ND		1.0	0.26	ug/L			01/27/20 13:33	1
Bromomethane	ND		1.0	0.69	ug/L			01/27/20 13:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/27/20 13:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/27/20 13:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/27/20 13:33	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/27/20 13:33	1
Chloroethane	ND		1.0	0.32	ug/L			01/27/20 13:33	1
Chloroform	ND		1.0	0.34	ug/L			01/27/20 13:33	1
Chloromethane	ND		1.0	0.35	ug/L			01/27/20 13:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/27/20 13:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/27/20 13:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/27/20 13:33	1
Dibromomethane	ND		1.0	0.41	ug/L			01/27/20 13:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/27/20 13:33	1
Iodomethane	ND		1.0	0.30	ug/L			01/27/20 13:33	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/27/20 13:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/27/20 13:33	1
o-Xylene	ND		1.0	0.76	ug/L			01/27/20 13:33	1
Styrene	ND		1.0	0.73	ug/L			01/27/20 13:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/27/20 13:33	1
Toluene	ND		1.0	0.51	ug/L			01/27/20 13:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/27/20 13:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/27/20 13:33	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/27/20 13:33	1
Trichloroethene	ND		1.0	0.46	ug/L			01/27/20 13:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/27/20 13:33	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/27/20 13:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/27/20 13:33	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 480-515054/7

Matrix: Water

Analysis Batch: 515054

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			01/27/20 13:33	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					01/27/20 13:33	1
4-Bromofluorobenzene (Surr)	102		73 - 120					01/27/20 13:33	1
Dibromofluoromethane (Surr)	101		75 - 123					01/27/20 13:33	1
Toluene-d8 (Surr)	100		80 - 120					01/27/20 13:33	1

Lab Sample ID: LCS 480-515054/5

Matrix: Water

Analysis Batch: 515054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	80 - 120
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	76 - 120
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	24.0		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	25.3		ug/L		101	66 - 127
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.4		ug/L		98	56 - 134
1,2-Dibromoethane	25.0	23.9		ug/L		96	77 - 120
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	22.7		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	23.7		ug/L		95	76 - 120
1,4-Dichlorobenzene	25.0	23.6		ug/L		95	80 - 120
2-Butanone (MEK)	125	107		ug/L		86	57 - 140
2-Hexanone	125	115		ug/L		92	65 - 127
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		90	71 - 125
Acetone	125	110		ug/L		88	56 - 142
Acrylonitrile	250	232		ug/L		93	63 - 125
Benzene	25.0	23.8		ug/L		95	71 - 124
Bromodichloromethane	25.0	23.5		ug/L		94	80 - 122
Bromoform	25.0	24.7		ug/L		99	61 - 132
Bromomethane	25.0	22.8		ug/L		91	55 - 144
Carbon disulfide	25.0	24.1		ug/L		97	59 - 134
Carbon tetrachloride	25.0	25.6		ug/L		102	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	80 - 120
Chlorobromomethane	25.0	24.4		ug/L		98	72 - 130
Chloroethane	25.0	20.8		ug/L		83	69 - 136
Chloroform	25.0	23.0		ug/L		92	73 - 127
Chloromethane	25.0	19.9		ug/L		80	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	24.0		ug/L		96	74 - 124
Dibromochloromethane	25.0	24.4		ug/L		98	75 - 125
Dibromomethane	25.0	24.1		ug/L		96	76 - 127
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
Iodomethane	25.0	24.5		ug/L		98	78 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: LCS 480-515054/5

Matrix: Water

Analysis Batch: 515054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	25.0	24.1		ug/L		96	76 - 122
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
o-Xylene	25.0	23.8		ug/L		95	76 - 122
Styrene	25.0	24.0		ug/L		96	80 - 120
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
trans-1,4-Dichloro-2-butene	25.0	24.5		ug/L		98	41 - 131
Trichloroethene	25.0	24.2		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	23.2		ug/L		93	62 - 150
Vinyl acetate	50.0	51.2		ug/L		102	50 - 144
Vinyl chloride	25.0	22.8		ug/L		91	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 480-515680/8

Matrix: Water

Analysis Batch: 515680

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 11:16	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 11:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 11:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 11:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 11:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 11:16	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 11:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 11:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 11:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 11:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 11:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 11:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 11:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 11:16	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 11:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 11:16	1
Acetone	ND		10	3.0	ug/L			01/31/20 11:16	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 11:16	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 11:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 11:16	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 11:16	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 11:16	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 11:16	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 480-515680/8

Matrix: Water

Analysis Batch: 515680

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 11:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 11:16	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 11:16	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 11:16	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 11:16	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 11:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 11:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 11:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 11:16	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 11:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 11:16	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 11:16	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 11:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 11:16	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 11:16	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 11:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 11:16	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 11:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 11:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 11:16	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 11:16	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 11:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 11:16	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 11:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 11:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		01/31/20 11:16	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/31/20 11:16	1
Dibromofluoromethane (Surr)	110		75 - 123		01/31/20 11:16	1
Toluene-d8 (Surr)	98		80 - 120		01/31/20 11:16	1

Lab Sample ID: LCS 480-515680/6

Matrix: Water

Analysis Batch: 515680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		100	80 - 120
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.7		ug/L		107	76 - 120
1,1,2-Trichloroethane	25.0	24.4		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	24.7		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	23.3		ug/L		93	66 - 127
1,2,3-Trichloropropane	25.0	26.2		ug/L		105	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.8		ug/L		111	56 - 134
1,2-Dibromoethane	25.0	27.7		ug/L		111	77 - 120
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: LCS 480-515680/6

Matrix: Water

Analysis Batch: 515680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	27.1		ug/L		108	75 - 120
1,2-Dichloropropane	25.0	25.7		ug/L		103	76 - 120
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 120
2-Butanone (MEK)	125	136		ug/L		109	57 - 140
2-Hexanone	125	131		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	71 - 125
Acetone	125	139		ug/L		111	56 - 142
Acrylonitrile	250	274		ug/L		109	63 - 125
Benzene	25.0	24.4		ug/L		98	71 - 124
Bromodichloromethane	25.0	27.4		ug/L		110	80 - 122
Bromoform	25.0	27.0		ug/L		108	61 - 132
Bromomethane	25.0	27.5		ug/L		110	55 - 144
Carbon disulfide	25.0	22.6		ug/L		91	59 - 134
Carbon tetrachloride	25.0	24.4		ug/L		98	72 - 134
Chlorobenzene	25.0	23.9		ug/L		96	80 - 120
Chlorobromomethane	25.0	25.1		ug/L		101	72 - 130
Chloroethane	25.0	26.6		ug/L		106	69 - 136
Chloroform	25.0	25.9		ug/L		103	73 - 127
Chloromethane	25.0	24.3		ug/L		97	68 - 124
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	74 - 124
cis-1,3-Dichloropropene	25.0	27.1		ug/L		108	74 - 124
Dibromochloromethane	25.0	26.7		ug/L		107	75 - 125
Dibromomethane	25.0	26.2		ug/L		105	76 - 127
Ethylbenzene	25.0	24.7		ug/L		99	77 - 123
Iodomethane	25.0	23.4		ug/L		94	78 - 123
m,p-Xylene	25.0	24.9		ug/L		100	76 - 122
Methylene Chloride	25.0	25.6		ug/L		103	75 - 124
o-Xylene	25.0	24.5		ug/L		98	76 - 122
Styrene	25.0	25.7		ug/L		103	80 - 120
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	24.6		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	80 - 120
trans-1,4-Dichloro-2-butene	25.0	22.7		ug/L		91	41 - 131
Trichloroethene	25.0	25.1		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	25.9		ug/L		103	62 - 150
Vinyl acetate	50.0	50.3		ug/L		101	50 - 144
Vinyl chloride	25.0	24.1		ug/L		96	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	97		80 - 120

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 480-515681/7

Matrix: Water

Analysis Batch: 515681

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 10:15	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 10:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 10:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 10:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 10:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 10:15	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 10:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 10:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 10:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 10:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 10:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 10:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 10:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 10:15	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 10:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 10:15	1
Acetone	ND		10	3.0	ug/L			01/31/20 10:15	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 10:15	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 10:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 10:15	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 10:15	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 10:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 10:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 10:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 10:15	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 10:15	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 10:15	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 10:15	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 10:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 10:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 10:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 10:15	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 10:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 10:15	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 10:15	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 10:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 10:15	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 10:15	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 10:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 10:15	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 10:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 10:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 10:15	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 10:15	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 10:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 10:15	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 10:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 10:15	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 480-515681/7

Matrix: Water

Analysis Batch: 515681

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 10:15	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					01/31/20 10:15	1
4-Bromofluorobenzene (Surr)	105		73 - 120					01/31/20 10:15	1
Dibromofluoromethane (Surr)	104		75 - 123					01/31/20 10:15	1
Toluene-d8 (Surr)	107		80 - 120					01/31/20 10:15	1

Lab Sample ID: LCS 480-515681/5

Matrix: Water

Analysis Batch: 515681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	80 - 120
1,1,1-Trichloroethane	25.0	22.2		ug/L		89	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.5		ug/L		94	76 - 120
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	22.6		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	22.8		ug/L		91	66 - 127
1,2,3-Trichloropropane	25.0	23.2		ug/L		93	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.9		ug/L		88	56 - 134
1,2-Dibromoethane	25.0	23.0		ug/L		92	77 - 120
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 124
1,2-Dichloroethane	25.0	21.2		ug/L		85	75 - 120
1,2-Dichloropropane	25.0	22.9		ug/L		92	76 - 120
1,4-Dichlorobenzene	25.0	22.7		ug/L		91	80 - 120
2-Butanone (MEK)	125	103		ug/L		82	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	71 - 125
Acetone	125	104		ug/L		83	56 - 142
Acrylonitrile	250	230		ug/L		92	63 - 125
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	22.2		ug/L		89	80 - 122
Bromoform	25.0	22.6		ug/L		90	61 - 132
Bromomethane	25.0	19.8		ug/L		79	55 - 144
Carbon disulfide	25.0	23.4		ug/L		94	59 - 134
Carbon tetrachloride	25.0	21.8		ug/L		87	72 - 134
Chlorobenzene	25.0	23.0		ug/L		92	80 - 120
Chlorobromomethane	25.0	23.4		ug/L		93	72 - 130
Chloroethane	25.0	19.3		ug/L		77	69 - 136
Chloroform	25.0	21.5		ug/L		86	73 - 127
Chloromethane	25.0	19.9		ug/L		80	68 - 124
cis-1,2-Dichloroethene	25.0	23.1		ug/L		92	74 - 124
cis-1,3-Dichloropropene	25.0	22.9		ug/L		92	74 - 124
Dibromochloromethane	25.0	22.8		ug/L		91	75 - 125
Dibromomethane	25.0	22.9		ug/L		91	76 - 127
Ethylbenzene	25.0	22.7		ug/L		91	77 - 123
Iodomethane	25.0	22.6		ug/L		90	78 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: LCS 480-515681/5

Matrix: Water

Analysis Batch: 515681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	25.0	22.8		ug/L		91	76 - 122
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
o-Xylene	25.0	22.9		ug/L		92	76 - 122
Styrene	25.0	22.9		ug/L		91	80 - 120
Tetrachloroethene	25.0	23.2		ug/L		93	74 - 122
Toluene	25.0	23.2		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	80 - 120
trans-1,4-Dichloro-2-butene	25.0	19.4		ug/L		77	41 - 131
Trichloroethene	25.0	22.7		ug/L		91	74 - 123
Trichlorofluoromethane	25.0	20.1		ug/L		80	62 - 150
Vinyl acetate	50.0	49.0		ug/L		98	50 - 144
Vinyl chloride	25.0	21.4		ug/L		86	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: MB 480-515811/8

Matrix: Water

Analysis Batch: 515811

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			01/31/20 22:19	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 22:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 22:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 22:19	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 22:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 22:19	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			01/31/20 22:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 22:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 22:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 22:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 22:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 22:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 22:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 22:19	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 22:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 22:19	1
Acetone	ND		10	3.0	ug/L			01/31/20 22:19	1
Acrylonitrile	ND		5.0	0.83	ug/L			01/31/20 22:19	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 22:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 22:19	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 22:19	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 22:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 22:19	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 480-515811/8

Matrix: Water

Analysis Batch: 515811

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 22:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 22:19	1
Chlorobromomethane	ND		1.0	0.87	ug/L			01/31/20 22:19	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 22:19	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 22:19	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 22:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 22:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 22:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 22:19	1
Dibromomethane	ND		1.0	0.41	ug/L			01/31/20 22:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 22:19	1
Iodomethane	ND		1.0	0.30	ug/L			01/31/20 22:19	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/31/20 22:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 22:19	1
o-Xylene	ND		1.0	0.76	ug/L			01/31/20 22:19	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 22:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 22:19	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 22:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 22:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 22:19	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			01/31/20 22:19	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 22:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 22:19	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/31/20 22:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 22:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 22:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/31/20 22:19	1
4-Bromofluorobenzene (Surr)	101		73 - 120		01/31/20 22:19	1
Dibromofluoromethane (Surr)	95		75 - 123		01/31/20 22:19	1
Toluene-d8 (Surr)	104		80 - 120		01/31/20 22:19	1

Lab Sample ID: LCS 480-515811/5

Matrix: Water

Analysis Batch: 515811

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.9		ug/L		96	80 - 120
1,1,1-Trichloroethane	25.0	22.1		ug/L		88	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	76 - 120
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	76 - 122
1,1-Dichloroethane	25.0	21.5		ug/L		86	77 - 120
1,1-Dichloroethene	25.0	21.8		ug/L		87	66 - 127
1,2,3-Trichloropropane	25.0	23.8		ug/L		95	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	56 - 134
1,2-Dibromoethane	25.0	25.0		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: LCS 480-515811/5

Matrix: Water

Analysis Batch: 515811

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	22.0		ug/L		88	75 - 120
1,2-Dichloropropane	25.0	22.6		ug/L		91	76 - 120
1,4-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 120
2-Butanone (MEK)	125	142		ug/L		114	57 - 140
2-Hexanone	125	140		ug/L		112	65 - 127
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	71 - 125
Acetone	125	150		ug/L		120	56 - 142
Acrylonitrile	250	268		ug/L		107	63 - 125
Benzene	25.0	22.5		ug/L		90	71 - 124
Bromodichloromethane	25.0	22.5		ug/L		90	80 - 122
Bromoform	25.0	22.0		ug/L		88	61 - 132
Bromomethane	25.0	21.1		ug/L		85	55 - 144
Carbon disulfide	25.0	20.1		ug/L		81	59 - 134
Carbon tetrachloride	25.0	22.0		ug/L		88	72 - 134
Chlorobenzene	25.0	23.1		ug/L		92	80 - 120
Chlorobromomethane	25.0	22.7		ug/L		91	72 - 130
Chloroethane	25.0	21.4		ug/L		85	69 - 136
Chloroform	25.0	22.0		ug/L		88	73 - 127
Chloromethane	25.0	20.1		ug/L		80	68 - 124
cis-1,2-Dichloroethene	25.0	22.0		ug/L		88	74 - 124
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	74 - 124
Dibromochloromethane	25.0	24.8		ug/L		99	75 - 125
Dibromomethane	25.0	23.3		ug/L		93	76 - 127
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
Iodomethane	25.0	20.5		ug/L		82	78 - 123
m,p-Xylene	25.0	23.9		ug/L		96	76 - 122
Methylene Chloride	25.0	21.8		ug/L		87	75 - 124
o-Xylene	25.0	23.6		ug/L		95	76 - 122
Styrene	25.0	25.0		ug/L		100	80 - 120
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	23.9		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	20.3		ug/L		81	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
trans-1,4-Dichloro-2-butene	25.0	23.8		ug/L		95	41 - 131
Trichloroethene	25.0	21.8		ug/L		87	74 - 123
Trichlorofluoromethane	25.0	21.2		ug/L		85	62 - 150
Vinyl acetate	50.0	50.2		ug/L		100	50 - 144
Vinyl chloride	25.0	20.3		ug/L		81	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	94		75 - 123
Toluene-d8 (Surr)	103		80 - 120

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 480-515831/7

Matrix: Water

Analysis Batch: 515831

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			02/01/20 10:14	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/01/20 10:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/01/20 10:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/01/20 10:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/01/20 10:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/01/20 10:14	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			02/01/20 10:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/01/20 10:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/01/20 10:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/01/20 10:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/01/20 10:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/01/20 10:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/01/20 10:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/01/20 10:14	1
2-Hexanone	ND		5.0	1.2	ug/L			02/01/20 10:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/01/20 10:14	1
Acetone	ND		10	3.0	ug/L			02/01/20 10:14	1
Acrylonitrile	ND		5.0	0.83	ug/L			02/01/20 10:14	1
Benzene	ND		1.0	0.41	ug/L			02/01/20 10:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/01/20 10:14	1
Bromoform	ND		1.0	0.26	ug/L			02/01/20 10:14	1
Bromomethane	ND		1.0	0.69	ug/L			02/01/20 10:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/01/20 10:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/01/20 10:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/01/20 10:14	1
Chlorobromomethane	ND		1.0	0.87	ug/L			02/01/20 10:14	1
Chloroethane	ND		1.0	0.32	ug/L			02/01/20 10:14	1
Chloroform	ND		1.0	0.34	ug/L			02/01/20 10:14	1
Chloromethane	ND		1.0	0.35	ug/L			02/01/20 10:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/01/20 10:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/01/20 10:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/01/20 10:14	1
Dibromomethane	ND		1.0	0.41	ug/L			02/01/20 10:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/01/20 10:14	1
Iodomethane	ND		1.0	0.30	ug/L			02/01/20 10:14	1
m,p-Xylene	ND		2.0	0.66	ug/L			02/01/20 10:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/01/20 10:14	1
o-Xylene	ND		1.0	0.76	ug/L			02/01/20 10:14	1
Styrene	ND		1.0	0.73	ug/L			02/01/20 10:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/01/20 10:14	1
Toluene	ND		1.0	0.51	ug/L			02/01/20 10:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/01/20 10:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/01/20 10:14	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			02/01/20 10:14	1
Trichloroethene	ND		1.0	0.46	ug/L			02/01/20 10:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/01/20 10:14	1
Vinyl acetate	ND		5.0	0.85	ug/L			02/01/20 10:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/01/20 10:14	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 480-515831/7

Matrix: Water

Analysis Batch: 515831

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			02/01/20 10:14	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					02/01/20 10:14	1
4-Bromofluorobenzene (Surr)	105		73 - 120					02/01/20 10:14	1
Dibromofluoromethane (Surr)	102		75 - 123					02/01/20 10:14	1
Toluene-d8 (Surr)	105		80 - 120					02/01/20 10:14	1

Lab Sample ID: LCS 480-515831/5

Matrix: Water

Analysis Batch: 515831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	22.4		ug/L		89	80 - 120
1,1,1-Trichloroethane	25.0	20.7		ug/L		83	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	76 - 122
1,1-Dichloroethane	25.0	21.3		ug/L		85	77 - 120
1,1-Dichloroethene	25.0	20.9		ug/L		84	66 - 127
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		86	56 - 134
1,2-Dibromoethane	25.0	22.8		ug/L		91	77 - 120
1,2-Dichlorobenzene	25.0	22.3		ug/L		89	80 - 124
1,2-Dichloroethane	25.0	20.3		ug/L		81	75 - 120
1,2-Dichloropropane	25.0	22.4		ug/L		89	76 - 120
1,4-Dichlorobenzene	25.0	22.0		ug/L		88	80 - 120
2-Butanone (MEK)	125	104		ug/L		83	57 - 140
2-Hexanone	125	111		ug/L		89	65 - 127
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	71 - 125
Acetone	125	100		ug/L		80	56 - 142
Acrylonitrile	250	229		ug/L		91	63 - 125
Benzene	25.0	21.9		ug/L		88	71 - 124
Bromodichloromethane	25.0	21.4		ug/L		85	80 - 122
Bromoform	25.0	21.9		ug/L		88	61 - 132
Bromomethane	25.0	20.9		ug/L		83	55 - 144
Carbon disulfide	25.0	21.0		ug/L		84	59 - 134
Carbon tetrachloride	25.0	20.2		ug/L		81	72 - 134
Chlorobenzene	25.0	22.2		ug/L		89	80 - 120
Chlorobromomethane	25.0	22.5		ug/L		90	72 - 130
Chloroethane	25.0	19.9		ug/L		80	69 - 136
Chloroform	25.0	20.7		ug/L		83	73 - 127
Chloromethane	25.0	20.1		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	22.1		ug/L		88	74 - 124
cis-1,3-Dichloropropene	25.0	22.5		ug/L		90	74 - 124
Dibromochloromethane	25.0	22.2		ug/L		89	75 - 125
Dibromomethane	25.0	22.3		ug/L		89	76 - 127
Ethylbenzene	25.0	21.7		ug/L		87	77 - 123
Iodomethane	25.0	20.9		ug/L		84	78 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: LCS 480-515831/5

Matrix: Water

Analysis Batch: 515831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	25.0	21.8		ug/L		87	76 - 122
Methylene Chloride	25.0	22.8		ug/L		91	75 - 124
o-Xylene	25.0	21.9		ug/L		88	76 - 122
Styrene	25.0	22.3		ug/L		89	80 - 120
Tetrachloroethene	25.0	21.8		ug/L		87	74 - 122
Toluene	25.0	21.8		ug/L		87	80 - 122
trans-1,2-Dichloroethene	25.0	21.7		ug/L		87	73 - 127
trans-1,3-Dichloropropene	25.0	22.9		ug/L		92	80 - 120
trans-1,4-Dichloro-2-butene	25.0	16.9		ug/L		68	41 - 131
Trichloroethene	25.0	21.2		ug/L		85	74 - 123
Trichlorofluoromethane	25.0	20.6		ug/L		82	62 - 150
Vinyl acetate	50.0	46.2		ug/L		92	50 - 144
Vinyl chloride	25.0	21.2		ug/L		85	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515831

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	27.7		ug/L		111	80 - 120
1,1,1-Trichloroethane	ND		25.0	28.0		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	26.5		ug/L		106	76 - 120
1,1,2-Trichloroethane	ND		25.0	27.0		ug/L		108	76 - 122
1,1-Dichloroethane	ND		25.0	28.0		ug/L		112	77 - 120
1,1-Dichloroethene	ND		25.0	29.3		ug/L		117	66 - 127
1,2,3-Trichloropropane	ND		25.0	25.8		ug/L		103	68 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	24.1		ug/L		96	56 - 134
1,2-Dibromoethane	ND		25.0	26.5		ug/L		106	77 - 120
1,2-Dichlorobenzene	ND		25.0	27.1		ug/L		108	80 - 124
1,2-Dichloroethane	ND		25.0	24.3		ug/L		97	75 - 120
1,2-Dichloropropane	ND		25.0	28.1		ug/L		112	76 - 120
1,4-Dichlorobenzene	ND		25.0	26.7		ug/L		107	78 - 124
2-Butanone (MEK)	ND		125	108		ug/L		86	57 - 140
2-Hexanone	ND		125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	125		ug/L		100	71 - 125
Acetone	ND		125	97.0		ug/L		78	56 - 142
Acrylonitrile	ND		250	256		ug/L		102	63 - 125
Benzene	ND		25.0	28.8		ug/L		115	71 - 124
Bromodichloromethane	ND		25.0	26.3		ug/L		105	80 - 122
Bromoform	ND		25.0	25.7		ug/L		103	61 - 132
Bromomethane	ND		25.0	28.1		ug/L		112	55 - 144
Carbon disulfide	ND		25.0	27.4		ug/L		110	59 - 134

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515831

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	ND		25.0	27.6		ug/L		110	72 - 134
Chlorobenzene	ND		25.0	28.3		ug/L		113	80 - 120
Chlorobromomethane	ND		25.0	27.4		ug/L		110	72 - 130
Chloroethane	ND		25.0	26.1		ug/L		104	69 - 136
Chloroform	ND		25.0	26.1		ug/L		105	73 - 127
Chloromethane	ND		25.0	26.7		ug/L		107	68 - 124
cis-1,2-Dichloroethene	ND		25.0	28.2		ug/L		113	74 - 124
cis-1,3-Dichloropropene	ND		25.0	26.9		ug/L		108	74 - 124
Dibromochloromethane	ND		25.0	26.4		ug/L		106	75 - 125
Dibromomethane	ND		25.0	26.3		ug/L		105	76 - 127
Ethylbenzene	ND		25.0	28.7		ug/L		115	77 - 123
Iodomethane	ND		25.0	27.4		ug/L		110	78 - 123
m,p-Xylene	ND		25.0	28.9		ug/L		116	76 - 122
Methylene Chloride	ND		25.0	28.3		ug/L		113	75 - 124
o-Xylene	ND		25.0	28.5		ug/L		114	76 - 122
Styrene	ND		25.0	27.9		ug/L		112	80 - 120
Tetrachloroethene	ND		25.0	29.4		ug/L		118	74 - 122
Toluene	0.73	J	25.0	28.9		ug/L		112	80 - 122
trans-1,2-Dichloroethene	ND		25.0	29.3		ug/L		117	73 - 127
trans-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	80 - 120
trans-1,4-Dichloro-2-butene	ND		25.0	22.5		ug/L		90	41 - 131
Trichloroethene	ND		25.0	28.0		ug/L		112	74 - 123
Trichlorofluoromethane	ND		25.0	28.0		ug/L		112	62 - 150
Vinyl acetate	ND		50.0	50.1		ug/L		100	50 - 144
Vinyl chloride	ND		25.0	29.7		ug/L		119	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123
Toluene-d8 (Surr)	108		80 - 120

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515831

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	28.1		ug/L		112	80 - 120	1	20
1,1,1-Trichloroethane	ND		25.0	28.1		ug/L		113	73 - 126	0	15
1,1,2,2-Tetrachloroethane	ND		25.0	26.6		ug/L		106	76 - 120	0	15
1,1,2-Trichloroethane	ND		25.0	27.2		ug/L		109	76 - 122	1	15
1,1-Dichloroethane	ND		25.0	28.0		ug/L		112	77 - 120	0	20
1,1-Dichloroethene	ND		25.0	29.4		ug/L		118	66 - 127	0	16
1,2,3-Trichloropropane	ND		25.0	26.5		ug/L		106	68 - 122	3	14
1,2-Dibromo-3-Chloropropane	ND		25.0	23.7		ug/L		95	56 - 134	2	15
1,2-Dibromoethane	ND		25.0	26.6		ug/L		106	77 - 120	0	15
1,2-Dichlorobenzene	ND		25.0	27.4		ug/L		109	80 - 124	1	20
1,2-Dichloroethane	ND		25.0	24.6		ug/L		98	75 - 120	1	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515831

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		25.0	29.1		ug/L		117	76 - 120	4	20
1,4-Dichlorobenzene	ND		25.0	27.8		ug/L		111	78 - 124	4	20
2-Butanone (MEK)	ND		125	104		ug/L		83	57 - 140	3	20
2-Hexanone	ND		125	112		ug/L		90	65 - 127	9	15
4-Methyl-2-pentanone (MIBK)	ND		125	116		ug/L		93	71 - 125	7	35
Acetone	ND		125	85.1		ug/L		68	56 - 142	13	15
Acrylonitrile	ND		250	242		ug/L		97	63 - 125	6	20
Benzene	ND		25.0	29.0		ug/L		116	71 - 124	1	13
Bromodichloromethane	ND		25.0	26.9		ug/L		107	80 - 122	2	15
Bromoform	ND		25.0	25.4		ug/L		102	61 - 132	1	15
Bromomethane	ND		25.0	27.5		ug/L		110	55 - 144	2	15
Carbon disulfide	ND		25.0	27.4		ug/L		110	59 - 134	0	15
Carbon tetrachloride	ND		25.0	28.9		ug/L		116	72 - 134	5	15
Chlorobenzene	ND		25.0	28.7		ug/L		115	80 - 120	1	25
Chlorobromomethane	ND		25.0	27.2		ug/L		109	72 - 130	1	15
Chloroethane	ND		25.0	26.3		ug/L		105	69 - 136	1	15
Chloroform	ND		25.0	26.2		ug/L		105	73 - 127	0	20
Chloromethane	ND		25.0	26.6		ug/L		106	68 - 124	1	15
cis-1,2-Dichloroethene	ND		25.0	28.1		ug/L		112	74 - 124	0	15
cis-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	74 - 124	3	15
Dibromochloromethane	ND		25.0	26.6		ug/L		107	75 - 125	1	15
Dibromomethane	ND		25.0	26.8		ug/L		107	76 - 127	2	15
Ethylbenzene	ND		25.0	29.2		ug/L		117	77 - 123	2	15
Iodomethane	ND		25.0	27.3		ug/L		109	78 - 123	0	20
m,p-Xylene	ND		25.0	29.2		ug/L		117	76 - 122	1	16
Methylene Chloride	ND		25.0	28.0		ug/L		112	75 - 124	1	15
o-Xylene	ND		25.0	28.4		ug/L		114	76 - 122	0	16
Styrene	ND		25.0	28.0		ug/L		112	80 - 120	0	20
Tetrachloroethene	ND		25.0	29.1		ug/L		116	74 - 122	1	20
Toluene	0.73	J	25.0	29.2		ug/L		114	80 - 122	1	15
trans-1,2-Dichloroethene	ND		25.0	29.5		ug/L		118	73 - 127	0	20
trans-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	80 - 120	1	15
trans-1,4-Dichloro-2-butene	ND		25.0	21.5		ug/L		86	41 - 131	5	20
Trichloroethene	ND		25.0	28.5		ug/L		114	74 - 123	2	16
Trichlorofluoromethane	ND		25.0	27.5		ug/L		110	62 - 150	2	20
Vinyl acetate	ND		50.0	52.1		ug/L		104	50 - 144	4	23
Vinyl chloride	ND		25.0	29.3		ug/L		117	65 - 133	1	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	106		80 - 120

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 480-515019/1-A

Matrix: Water

Analysis Batch: 515221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 515019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		01/27/20 08:56	01/28/20 12:16	1
Isotope Dilution	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				01/27/20 08:56	01/28/20 12:16	1

Lab Sample ID: LCS 480-515019/2-A

Matrix: Water

Analysis Batch: 515221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 515019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.19		ug/L		119	40 - 140
Isotope Dilution	%Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	28		15 - 110				

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515221

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 515019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		0.990	1.17		ug/L		118	40 - 140
Isotope Dilution	%Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8	29		15 - 110						

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515221

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 515019

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,4-Dioxane	ND		1.01	1.20		ug/L		119	40 - 140	3	20
Isotope Dilution	%Recovery	MSD Qualifier	Limits								
1,4-Dioxane-d8	30		15 - 110								

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 480-515091/1-A

Matrix: Water

Analysis Batch: 515222

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 515091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 01:52	1
Acenaphthylene	ND		0.50	0.34	ug/L		01/27/20 15:41	01/29/20 01:52	1
Anthracene	ND		0.50	0.39	ug/L		01/27/20 15:41	01/29/20 01:52	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		01/27/20 15:41	01/29/20 01:52	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 01:52	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		01/27/20 15:41	01/29/20 01:52	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 01:52	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		01/27/20 15:41	01/29/20 01:52	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: MB 480-515091/1-A

Matrix: Water

Analysis Batch: 515222

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 515091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.50	0.32	ug/L		01/27/20 15:41	01/29/20 01:52	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		01/27/20 15:41	01/29/20 01:52	1
Fluoranthene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 01:52	1
Fluorene	ND		0.50	0.37	ug/L		01/27/20 15:41	01/29/20 01:52	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		01/27/20 15:41	01/29/20 01:52	1
Naphthalene	ND		0.50	0.42	ug/L		01/27/20 15:41	01/29/20 01:52	1
Phenanthrene	ND		0.50	0.38	ug/L		01/27/20 15:41	01/29/20 01:52	1
Pyrene	ND		0.50	0.36	ug/L		01/27/20 15:41	01/29/20 01:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		48 - 120	01/27/20 15:41	01/29/20 01:52	1
Nitrobenzene-d5	86		46 - 120	01/27/20 15:41	01/29/20 01:52	1
p-Terphenyl-d14	85		24 - 136	01/27/20 15:41	01/29/20 01:52	1

Lab Sample ID: LCS 480-515091/2-A

Matrix: Water

Analysis Batch: 515222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 515091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	31.1		ug/L		97	60 - 120
Acenaphthylene	32.0	31.5		ug/L		99	63 - 120
Anthracene	32.0	31.8		ug/L		99	69 - 131
Benzo[a]anthracene	32.0	32.0		ug/L		100	62 - 142
Benzo[a]pyrene	32.0	31.6		ug/L		99	46 - 156
Benzo[b]fluoranthene	32.0	33.2		ug/L		104	50 - 149
Benzo[g,h,i]perylene	32.0	33.6		ug/L		105	34 - 189
Benzo[k]fluoranthene	32.0	32.5		ug/L		102	47 - 147
Chrysene	32.0	31.8		ug/L		99	69 - 140
Dibenz(a,h)anthracene	32.0	33.0		ug/L		103	35 - 176
Fluoranthene	32.0	32.5		ug/L		102	67 - 133
Fluorene	32.0	32.0		ug/L		100	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	32.6		ug/L		102	57 - 161
Naphthalene	32.0	28.6		ug/L		89	48 - 120
Phenanthrene	32.0	30.7		ug/L		96	67 - 130
Pyrene	32.0	31.9		ug/L		100	58 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	97		48 - 120
Nitrobenzene-d5	90		46 - 120
p-Terphenyl-d14	94		24 - 136

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515222

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 515091

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		32.0	30.7		ug/L		96	60 - 120
Acenaphthylene	ND		32.0	31.6		ug/L		99	63 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515222

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 515091

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Anthracene	ND		32.0	31.1		ug/L		97	69 - 131		
Benzo[a]anthracene	ND		32.0	26.2		ug/L		82	62 - 142		
Benzo[a]pyrene	ND		32.0	24.5		ug/L		77	46 - 156		
Benzo[b]fluoranthene	ND		32.0	24.9		ug/L		78	50 - 149		
Benzo[g,h,i]perylene	ND		32.0	25.9		ug/L		81	34 - 189		
Benzo[k]fluoranthene	ND		32.0	25.9		ug/L		81	47 - 147		
Chrysene	ND		32.0	26.5		ug/L		83	69 - 140		
Dibenz(a,h)anthracene	ND		32.0	25.6		ug/L		80	35 - 176		
Fluoranthene	ND		32.0	29.5		ug/L		92	67 - 133		
Fluorene	ND		32.0	31.8		ug/L		99	66 - 129		
Indeno[1,2,3-cd]pyrene	ND		32.0	25.0		ug/L		78	57 - 161		
Naphthalene	ND		32.0	29.5		ug/L		92	48 - 120		
Phenanthrene	ND		32.0	30.5		ug/L		95	67 - 130		
Pyrene	ND		32.0	29.9		ug/L		93	58 - 136		

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515222

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 515091

Top Batch: 010001											
Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Acenaphthene	ND		32.0	31.1		ug/L		97	60 - 120	2	24
Acenaphthylene	ND		32.0	32.4		ug/L		101	63 - 120	2	18
Anthracene	ND		32.0	30.4		ug/L		95	69 - 131	2	15
Benzo[a]anthracene	ND		32.0	23.4		ug/L		73	62 - 142	11	15
Benzo[a]pyrene	ND		32.0	22.1		ug/L		69	46 - 156	10	15
Benzo[b]fluoranthene	ND		32.0	22.7		ug/L		71	50 - 149	9	15
Benzo[g,h,i]perylene	ND		32.0	22.6		ug/L		71	34 - 189	13	15
Benzo[k]fluoranthene	ND		32.0	23.3		ug/L		73	47 - 147	11	22
Chrysene	ND		32.0	24.0		ug/L		75	69 - 140	10	15
Dibenz(a,h)anthracene	ND		32.0	22.5		ug/L		70	35 - 176	13	15
Fluoranthene	ND		32.0	28.3		ug/L		88	67 - 133	4	15
Fluorene	ND		32.0	31.3		ug/L		98	66 - 129	1	15
Indeno[1,2,3-cd]pyrene	ND		32.0	22.3		ug/L		70	57 - 161	12	15
Naphthalene	ND		32.0	29.1		ug/L		91	48 - 120	1	29
Phenanthrene	ND		32.0	29.3		ug/L		92	67 - 130	4	15
Pyrene	ND		32.0	27.6		ug/L		86	58 - 136	8	25
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorobiphenyl	97		48 - 120								
Nitrobenzene-d5	92		46 - 120								
p-Terphenyl-d14	59		24 - 136								

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-151845/1-A

Matrix: Water

Analysis Batch: 151922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	2.9	ng/L		01/29/20 10:40	01/31/20 11:23	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		20	5.5	ng/L		01/29/20 10:40	01/31/20 11:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		01/29/20 10:40	01/31/20 11:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.49	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorobutanoic acid (PFBA)	ND		2.0	1.0	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorooctanesulfonamide (PFOSA)	ND		10	10	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.81	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.63	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60	ng/L		01/29/20 10:40	01/31/20 11:23	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.78	ng/L		01/29/20 10:40	01/31/20 11:23	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	101		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C2 PFDoA	75		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C2 PFHxA	115		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C2 PFUnA	92		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C2 PFTeDA	73		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C3 PFBS	116		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C4 PFBA	122		25 - 150	01/29/20 10:40	01/31/20 11:23	1
13C4 PFOA	107		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C4 PFOS	103		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C4 PFHpA	115		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C5 PFNA	107		50 - 150	01/29/20 10:40	01/31/20 11:23	1
13C5 PFPeA	122		25 - 150	01/29/20 10:40	01/31/20 11:23	1
13C8 FOSA	70		25 - 150	01/29/20 10:40	01/31/20 11:23	1
18O2 PFHxS	113		50 - 150	01/29/20 10:40	01/31/20 11:23	1
d3-NMeFOSAA	83		50 - 150	01/29/20 10:40	01/31/20 11:23	1
d5-NEtFOSAA	74		50 - 150	01/29/20 10:40	01/31/20 11:23	1
M2-6:2 FTS	89		25 - 150	01/29/20 10:40	01/31/20 11:23	1
M2-8:2 FTS	95		25 - 150	01/29/20 10:40	01/31/20 11:23	1

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QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: LCS 200-151845/2-A

Matrix: Water

Analysis Batch: 151851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	39.7		ng/L		104	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	34.6		ng/L		91	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	35.8		ng/L		89	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.9		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	31.8		ng/L		90	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	35.2		ng/L		88	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	32.1		ng/L		83	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	40.0		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	37.0		ng/L		93	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	30.9		ng/L		81	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	35.0		ng/L		87	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	31.8		ng/L		87	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	34.4		ng/L		86	70 - 130
Perfluorononanoic acid (PFNA)	40.0	36.5		ng/L		91	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	38.2		ng/L		95	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	32.1		ng/L		87	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	35.9		ng/L		90	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	34.3		ng/L		86	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	42.7		ng/L		107	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	35.5		ng/L		89	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	38.7		ng/L		97	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFDA	102		50 - 150
13C2 PFDoA	95		50 - 150
13C2 PFHxA	120		50 - 150
13C2 PFUnA	99		50 - 150
13C2 PFTeA	91		50 - 150
13C3 PFBS	116		50 - 150
13C4 PFBA	121		25 - 150
13C4 PFOA	108		50 - 150
13C4 PFOS	114		50 - 150
13C4 PFHpA	123		50 - 150
13C5 PFNA	110		50 - 150
13C5 PFPeA	119		25 - 150
13C8 FOSA	84		25 - 150
18O2 PFHxS	117		50 - 150
d3-NMeFOSAA	86		50 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: LCS 200-151845/2-A

Matrix: Water

Analysis Batch: 151851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151845

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	81		50 - 150
M2-6:2 FTS	89		25 - 150
M2-8:2 FTS	95		25 - 150

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 151851

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 151845

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	%Rec.
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		32.5	28.0		ng/L		86	40 - 160
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	13	J F2	32.2	43.0		ng/L		95	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		33.9	30.7		ng/L		91	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		33.9	35.3		ng/L		104	40 - 160
Perfluorobutanesulfonic acid (PFBS)	1.2	J	30.0	29.2		ng/L		93	40 - 160
Perfluorobutanoic acid (PFBA)	2.2		33.9	31.3		ng/L		86	40 - 160
Perfluorodecanesulfonic acid (PFDS)	ND		32.7	24.8		ng/L		76	40 - 160
Perfluorodecanoic acid (PFDA)	ND		33.9	33.4		ng/L		99	40 - 160
Perfluorododecanoic acid (PFDoA)	ND		33.9	33.7		ng/L		99	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	ND		32.3	31.4		ng/L		97	40 - 160
Perfluoroheptanoic acid (PFHpA)	ND		33.9	31.9		ng/L		94	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.78	J	30.9	27.7		ng/L		87	40 - 160
Perfluorohexanoic acid (PFHxA)	0.86	J	33.9	31.2		ng/L		89	40 - 160
Perfluorononanoic acid (PFNA)	ND		33.9	32.9		ng/L		97	40 - 160
Perfluorooctanesulfonamide (PFOSA)	ND		33.9	31.2		ng/L		92	40 - 160
Perfluorooctanesulfonic acid (PFOS)	ND		31.5	28.9		ng/L		92	40 - 160
Perfluorooctanoic acid (PFOA)	1.2	J	33.9	35.1		ng/L		100	40 - 160
Perfluoropentanoic acid (PFPeA)	1.1	J	33.9	27.9		ng/L		79	40 - 160
Perfluorotetradecanoic acid (PFTeA)	ND		33.9	32.1		ng/L		95	40 - 160
Perfluorotridecanoic acid (PFTriA)	ND		33.9	28.2		ng/L		83	40 - 160
Perfluoroundecanoic acid (PFUnA)	ND		33.9	32.7		ng/L		96	40 - 160
Isotope Dilution	MS	MS							
	%Recovery	Qualifier	Limits						
	13C2 PFDA	84	50 - 150						
	13C2 PFDoA	78	50 - 150						
	13C2 PFHxA	116	50 - 150						
	13C2 PFUnA	89	50 - 150						
	13C2 PFTeDA	90	50 - 150						
13C3 PFBS	109	50 - 150							

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QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 151851

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 151845

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	115		25 - 150
13C4 PFOA	104		50 - 150
13C4 PFOS	102		50 - 150
13C4 PFHpA	113		50 - 150
13C5 PFNA	102		50 - 150
13C5 PFPeA	118		25 - 150
13C8 FOSA	81		25 - 150
18O2 PFHxS	111		50 - 150
d3-NMeFOSAA	73		50 - 150
d5-NEtFOSAA	77		50 - 150
M2-6:2 FTS	96		25 - 150
M2-8:2 FTS	85		25 - 150

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 151851

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 151845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		33.2	30.4		ng/L		92	40 - 160	9	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	13	J F2	32.8	30.8	F2	ng/L		56	40 - 160	33	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		34.7	32.4		ng/L		93	40 - 160	5	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		34.7	33.9		ng/L		98	40 - 160	4	20
Perfluorobutanesulfonic acid (PFBS)	1.2	J	30.6	28.6		ng/L		89	40 - 160	2	20
Perfluorobutanoic acid (PFBA)	2.2		34.7	30.2		ng/L		81	40 - 160	4	30
Perfluorodecanesulfonic acid (PFDS)	ND		33.4	28.9		ng/L		86	40 - 160	15	30
Perfluorodecanoic acid (PFDA)	ND		34.7	30.3		ng/L		87	40 - 160	10	20
Perfluorododecanoic acid (PFDoA)	ND		34.7	32.8		ng/L		95	40 - 160	3	20
Perfluoroheptanesulfonic Acid (PFHpS)	ND		33.0	30.7		ng/L		93	40 - 160	2	30
Perfluoroheptanoic acid (PFHpA)	ND		34.7	31.3		ng/L		90	40 - 160	2	20
Perfluorohexanesulfonic acid (PFHxS)	0.78	J	31.5	28.8		ng/L		89	40 - 160	4	20
Perfluorohexanoic acid (PFHxA)	0.86	J	34.7	32.3		ng/L		91	40 - 160	4	20
Perfluorononanoic acid (PFNA)	ND		34.7	36.0		ng/L		104	40 - 160	9	20
Perfluorooctanesulfonamide (PFOSA)	ND		34.7	34.6		ng/L		100	40 - 160	10	30
Perfluorooctanesulfonic acid (PFOS)	ND		32.2	27.8		ng/L		86	40 - 160	4	20
Perfluorooctanoic acid (PFOA)	1.2	J	34.7	33.4		ng/L		93	40 - 160	5	20
Perfluoropentanoic acid (PFPeA)	1.1	J	34.7	28.8		ng/L		80	40 - 160	3	30
Perfluorotetradecanoic acid (PFTeA)	ND		34.7	38.9		ng/L		112	40 - 160	19	20
Perfluorotridecanoic acid (PFTriA)	ND		34.7	27.6		ng/L		80	40 - 160	2	20

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QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 151851

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 151845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)	ND		34.7	30.5		ng/L		88	40 - 160	7	20
Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits								
13C2 PFDA	99		50 - 150								
13C2 PFDoA	87		50 - 150								
13C2 PFHxA	113		50 - 150								
13C2 PFUnA	98		50 - 150								
13C2 PFTeDA	88		50 - 150								
13C3 PFBS	112		50 - 150								
13C4 PFBA	117		25 - 150								
13C4 PFOA	109		50 - 150								
13C4 PFOS	105		50 - 150								
13C4 PFHpA	117		50 - 150								
13C5 PFNA	101		50 - 150								
13C5 PFPeA	113		25 - 150								
13C8 FOSA	82		25 - 150								
18O2 PFHxS	113		50 - 150								
d3-NMeFOSAA	76		50 - 150								
d5-NEtFOSAA	81		50 - 150								
M2-6:2 FTS	88		25 - 150								
M2-8:2 FTS	85		25 - 150								

Lab Sample ID: MB 200-151852/1-A

Matrix: Water

Analysis Batch: 151857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	2.9	ng/L		01/29/20 13:33	01/29/20 20:47	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		20	5.5	ng/L		01/29/20 13:33	01/29/20 20:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		01/29/20 13:33	01/29/20 20:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.49	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorobutanoic acid (PFBA)	ND		2.0	1.0	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorononanoic acid (PFNA)	0.453 J		2.0	0.27	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorooctanesulfonamide (PFOSA)	ND		10	10	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.81	ng/L		01/29/20 13:33	01/29/20 20:47	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 200-151852/1-A

Matrix: Water

Analysis Batch: 151857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.63	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluorotridecanoic acid (PFTriA)	0.639	J	2.0	0.60	ng/L		01/29/20 13:33	01/29/20 20:47	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.78	ng/L		01/29/20 13:33	01/29/20 20:47	1
Isotope Dilution	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	91		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C2 PFDoA	82		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C2 PFHxA	121		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C2 PFUnA	93		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C2 PFTeDA	88		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C3 PFBS	108		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C4 PFBA	119		25 - 150				01/29/20 13:33	01/29/20 20:47	1
13C4 PFOA	110		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C4 PFOS	103		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C4 PFHpA	112		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C5 PFNA	104		50 - 150				01/29/20 13:33	01/29/20 20:47	1
13C5 PFPeA	114		25 - 150				01/29/20 13:33	01/29/20 20:47	1
13C8 FOSA	73		25 - 150				01/29/20 13:33	01/29/20 20:47	1
18O2 PFHxS	108		50 - 150				01/29/20 13:33	01/29/20 20:47	1
d3-NMeFOSAA	80		50 - 150				01/29/20 13:33	01/29/20 20:47	1
d5-NEtFOSAA	81		50 - 150				01/29/20 13:33	01/29/20 20:47	1
M2-6:2 FTS	81		25 - 150				01/29/20 13:33	01/29/20 20:47	1
M2-8:2 FTS	95		25 - 150				01/29/20 13:33	01/29/20 20:47	1

Lab Sample ID: LCS 200-151852/2-A

Matrix: Water

Analysis Batch: 151857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	32.3		ng/L		84	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	34.0		ng/L		90	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.4		ng/L		96	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	41.8		ng/L		104	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	28.9		ng/L		82	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	35.2		ng/L		88	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	37.4		ng/L		97	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	39.1		ng/L		98	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	38.1		ng/L		95	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.3		ng/L		95	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	34.4		ng/L		86	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	30.6		ng/L		84	70 - 130

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QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: LCS 200-151852/2-A

Matrix: Water

Analysis Batch: 151857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid (PFHxA)	40.0	33.0		ng/L		82	70 - 130
Perfluorononanoic acid (PFNA)	40.0	38.8		ng/L		97	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	33.8		ng/L		85	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	34.3		ng/L		93	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	32.5		ng/L		81	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	32.4		ng/L		81	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	40.3		ng/L		101	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	33.5		ng/L		84	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	38.8		ng/L		97	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFDA	104		50 - 150
13C2 PFDoA	84		50 - 150
13C2 PFHxA	118		50 - 150
13C2 PFUnA	102		50 - 150
13C2 PFTeDA	88		50 - 150
13C3 PFBS	118		50 - 150
13C4 PFBA	111		25 - 150
13C4 PFOA	106		50 - 150
13C4 PFOS	100		50 - 150
13C4 PFHpA	112		50 - 150
13C5 PFNA	106		50 - 150
13C5 PFPeA	115		25 - 150
13C8 FOSA	76		25 - 150
18O2 PFHxS	114		50 - 150
d3-NMeFOSAA	79		50 - 150
d5-NEtFOSAA	83		50 - 150
M2-6:2 FTS	88		25 - 150
M2-8:2 FTS	90		25 - 150

Lab Sample ID: MB 200-151925/1-A

Matrix: Water

Analysis Batch: 152174

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	2.9	ng/L		01/31/20 10:56	02/10/20 13:02	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		20	5.5	ng/L		01/31/20 10:56	02/10/20 13:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		01/31/20 10:56	02/10/20 13:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.49	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorobutanoic acid (PFBA)	ND		2.0	1.0	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90	ng/L		01/31/20 10:56	02/10/20 13:02	1

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QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: MB 200-151925/1-A

Matrix: Water

Analysis Batch: 152174

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorooctanesulfonamide (PFOSA)	ND		10	10	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.81	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.63	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60	ng/L		01/31/20 10:56	02/10/20 13:02	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.78	ng/L		01/31/20 10:56	02/10/20 13:02	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	98		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C2 PFDoA	85		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C2 PFHxA	98		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C2 PFUnA	93		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C2 PFTeDA	83		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C3 PFBS	98		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C4 PFBA	104		25 - 150	01/31/20 10:56	02/10/20 13:02	1
13C4 PFOA	98		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C4 PFOS	89		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C4 PFHpA	105		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C5 PFNA	99		50 - 150	01/31/20 10:56	02/10/20 13:02	1
13C5 PFPeA	106		25 - 150	01/31/20 10:56	02/10/20 13:02	1
13C8 FOSA	80		25 - 150	01/31/20 10:56	02/10/20 13:02	1
18O2 PFHxS	102		50 - 150	01/31/20 10:56	02/10/20 13:02	1
d3-NMeFOSAA	94		50 - 150	01/31/20 10:56	02/10/20 13:02	1
d5-NEtFOSAA	82		50 - 150	01/31/20 10:56	02/10/20 13:02	1
M2-6:2 FTS	103		25 - 150	01/31/20 10:56	02/10/20 13:02	1
M2-8:2 FTS	96		25 - 150	01/31/20 10:56	02/10/20 13:02	1

Lab Sample ID: LCS 200-151925/2-A

Matrix: Water

Analysis Batch: 152174

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	37.9		ng/L		99	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	38.0		ng/L		100	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	45.5		ng/L		114	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.7		ng/L		114	70 - 130

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QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

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

Lab Sample ID: LCS 200-151925/2-A

Matrix: Water

Analysis Batch: 152174

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanesulfonic acid (PFBS)	35.4	36.9		ng/L		104	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	38.7		ng/L		97	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	32.5		ng/L		84	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	34.3		ng/L		86	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	42.4		ng/L		106	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.0		ng/L		100	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	39.8		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.2		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	37.3		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	40.0	39.3		ng/L		98	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	33.0		ng/L		83	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	37.4		ng/L		101	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	42.1		ng/L		105	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	36.3		ng/L		91	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	40.0		ng/L		100	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	41.0		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	36.7		ng/L		92	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFDA	110		50 - 150
13C2 PFDoA	71		50 - 150
13C2 PFHxA	94		50 - 150
13C2 PFUnA	88		50 - 150
13C2 PFTeDA	76		50 - 150
13C3 PFBS	93		50 - 150
13C4 PFBA	97		25 - 150
13C4 PFOA	95		50 - 150
13C4 PFOS	92		50 - 150
13C4 PFHpA	92		50 - 150
13C5 PFNA	96		50 - 150
13C5 PFPeA	96		25 - 150
13C8 FOSA	72		25 - 150
18O2 PFHxS	92		50 - 150
d3-NMeFOSAA	94		50 - 150
d5-NEtFOSAA	77		50 - 150
M2-6:2 FTS	99		25 - 150
M2-8:2 FTS	95		25 - 150

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-514780/1-A
Matrix: Water
Analysis Batch: 515030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 514780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		01/24/20 08:35	01/24/20 14:05	1
Antimony	ND		0.020	0.0068	mg/L		01/24/20 08:35	01/24/20 14:05	1
Arsenic	ND		0.015	0.0056	mg/L		01/24/20 08:35	01/24/20 14:05	1
Barium	ND		0.0020	0.00070	mg/L		01/24/20 08:35	01/24/20 14:05	1
Beryllium	ND		0.0020	0.00030	mg/L		01/24/20 08:35	01/24/20 14:05	1
Boron	ND		0.020	0.0040	mg/L		01/24/20 08:35	01/24/20 14:05	1
Cadmium	ND		0.0020	0.00050	mg/L		01/24/20 08:35	01/24/20 14:05	1
Calcium	ND		0.50	0.10	mg/L		01/24/20 08:35	01/24/20 14:05	1
Chromium	ND		0.0040	0.0010	mg/L		01/24/20 08:35	01/24/20 14:05	1
Cobalt	ND		0.0040	0.00063	mg/L		01/24/20 08:35	01/24/20 14:05	1
Copper	0.00163	J	0.010	0.0016	mg/L		01/24/20 08:35	01/24/20 14:05	1
Iron	0.0206	J	0.050	0.019	mg/L		01/24/20 08:35	01/24/20 14:05	1
Lead	ND		0.010	0.0030	mg/L		01/24/20 08:35	01/24/20 14:05	1
Magnesium	ND		0.20	0.043	mg/L		01/24/20 08:35	01/24/20 14:05	1
Manganese	0.00106	J	0.0030	0.00040	mg/L		01/24/20 08:35	01/24/20 14:05	1
Nickel	ND		0.010	0.0013	mg/L		01/24/20 08:35	01/24/20 14:05	1
Potassium	ND		0.50	0.10	mg/L		01/24/20 08:35	01/24/20 14:05	1
Selenium	ND		0.025	0.0087	mg/L		01/24/20 08:35	01/24/20 14:05	1
Silver	ND		0.0060	0.0017	mg/L		01/24/20 08:35	01/24/20 14:05	1
Sodium	ND		1.0	0.32	mg/L		01/24/20 08:35	01/24/20 14:05	1
Thallium	ND		0.020	0.010	mg/L		01/24/20 08:35	01/24/20 14:05	1
Vanadium	ND		0.0050	0.0015	mg/L		01/24/20 08:35	01/24/20 14:05	1
Zinc	0.00396	J	0.010	0.0015	mg/L		01/24/20 08:35	01/24/20 14:05	1

Lab Sample ID: LCS 480-514780/2-A
Matrix: Water
Analysis Batch: 515030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 514780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.15		mg/L		91	80 - 120
Antimony	0.200	0.208		mg/L		104	80 - 120
Arsenic	0.200	0.190		mg/L		95	80 - 120
Barium	0.200	0.206		mg/L		103	80 - 120
Beryllium	0.200	0.199		mg/L		99	80 - 120
Boron	0.200	0.196		mg/L		98	80 - 120
Cadmium	0.200	0.193		mg/L		96	80 - 120
Calcium	10.0	9.43		mg/L		94	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.200	0.182		mg/L		91	80 - 120
Copper	0.200	0.189		mg/L		94	80 - 120
Iron	10.0	9.68		mg/L		97	80 - 120
Lead	0.200	0.188		mg/L		94	80 - 120
Magnesium	10.0	9.54		mg/L		95	80 - 120
Manganese	0.200	0.197		mg/L		98	80 - 120
Nickel	0.200	0.187		mg/L		94	80 - 120
Potassium	10.0	9.73		mg/L		97	80 - 120
Selenium	0.200	0.185		mg/L		92	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120
Sodium	10.0	9.39		mg/L		94	80 - 120

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QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-514780/2-A
Matrix: Water
Analysis Batch: 515030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 514780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.200	0.200		mg/L		100	80 - 120
Vanadium	0.200	0.195		mg/L		97	80 - 120
Zinc	0.200	0.199		mg/L		99	80 - 120

Lab Sample ID: MB 480-514967/1-A
Matrix: Water
Analysis Batch: 515152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 514967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		01/27/20 07:38	01/27/20 18:46	1
Antimony	ND		0.020	0.0068	mg/L		01/27/20 07:38	01/27/20 18:46	1
Arsenic	ND		0.015	0.0056	mg/L		01/27/20 07:38	01/27/20 18:46	1
Barium	ND		0.0020	0.00070	mg/L		01/27/20 07:38	01/27/20 18:46	1
Beryllium	ND		0.0020	0.00030	mg/L		01/27/20 07:38	01/27/20 18:46	1
Boron	ND		0.020	0.0040	mg/L		01/27/20 07:38	01/27/20 18:46	1
Cadmium	ND		0.0020	0.00050	mg/L		01/27/20 07:38	01/27/20 18:46	1
Calcium	ND		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 18:46	1
Chromium	ND		0.0040	0.0010	mg/L		01/27/20 07:38	01/27/20 18:46	1
Cobalt	ND		0.0040	0.00063	mg/L		01/27/20 07:38	01/27/20 18:46	1
Copper	ND		0.010	0.0016	mg/L		01/27/20 07:38	01/27/20 18:46	1
Iron	ND		0.050	0.019	mg/L		01/27/20 07:38	01/27/20 18:46	1
Lead	ND		0.010	0.0030	mg/L		01/27/20 07:38	01/27/20 18:46	1
Magnesium	ND		0.20	0.043	mg/L		01/27/20 07:38	01/27/20 18:46	1
Nickel	ND		0.010	0.0013	mg/L		01/27/20 07:38	01/27/20 18:46	1
Potassium	ND		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 18:46	1
Silver	ND		0.0060	0.0017	mg/L		01/27/20 07:38	01/27/20 18:46	1
Sodium	ND		1.0	0.32	mg/L		01/27/20 07:38	01/27/20 18:46	1
Thallium	ND		0.020	0.010	mg/L		01/27/20 07:38	01/27/20 18:46	1
Vanadium	ND		0.0050	0.0015	mg/L		01/27/20 07:38	01/27/20 18:46	1
Zinc	ND		0.010	0.0015	mg/L		01/27/20 07:38	01/27/20 18:46	1

Lab Sample ID: MB 480-514967/1-A
Matrix: Water
Analysis Batch: 515542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 514967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.0030	0.00040	mg/L		01/27/20 07:38	01/29/20 18:45	1
Selenium	ND		0.025	0.0087	mg/L		01/27/20 07:38	01/29/20 18:45	1

Lab Sample ID: LCS 480-514967/2-A
Matrix: Water
Analysis Batch: 515152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 514967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.37		mg/L		94	80 - 120
Antimony	0.200	0.219		mg/L		109	80 - 120
Arsenic	0.200	0.194		mg/L		97	80 - 120
Barium	0.200	0.206		mg/L		103	80 - 120
Beryllium	0.200	0.202		mg/L		101	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-514967/2-A

Matrix: Water

Analysis Batch: 515152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 514967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.200	0.193		mg/L		96	80 - 120
Cadmium	0.200	0.195		mg/L		97	80 - 120
Calcium	10.0	9.94		mg/L		99	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.200	0.190		mg/L		95	80 - 120
Copper	0.200	0.194		mg/L		97	80 - 120
Iron	10.0	9.68		mg/L		97	80 - 120
Lead	0.200	0.194		mg/L		97	80 - 120
Magnesium	10.0	9.88		mg/L		99	80 - 120
Nickel	0.200	0.192		mg/L		96	80 - 120
Potassium	10.0	9.27		mg/L		93	80 - 120
Silver	0.0500	0.0454		mg/L		91	80 - 120
Sodium	10.0	9.11		mg/L		91	80 - 120
Thallium	0.200	0.199		mg/L		99	80 - 120
Vanadium	0.200	0.200		mg/L		100	80 - 120
Zinc	0.200	0.205		mg/L		103	80 - 120

Lab Sample ID: LCS 480-514967/2-A

Matrix: Water

Analysis Batch: 515542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 514967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.200	0.201		mg/L		100	80 - 120
Selenium	0.200	0.195		mg/L		97	80 - 120

Lab Sample ID: MB 480-514969/1-A

Matrix: Water

Analysis Batch: 515154

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 514969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		01/27/20 07:38	01/27/20 12:20	1
Antimony	ND		0.020	0.0068	mg/L		01/27/20 07:38	01/27/20 12:20	1
Arsenic	ND		0.015	0.0056	mg/L		01/27/20 07:38	01/27/20 12:20	1
Barium	ND		0.0020	0.00070	mg/L		01/27/20 07:38	01/27/20 12:20	1
Beryllium	ND		0.0020	0.00030	mg/L		01/27/20 07:38	01/27/20 12:20	1
Boron	ND		0.020	0.0040	mg/L		01/27/20 07:38	01/27/20 12:20	1
Cadmium	ND		0.0020	0.00050	mg/L		01/27/20 07:38	01/27/20 12:20	1
Calcium	ND		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 12:20	1
Chromium	0.00122	J	0.0040	0.0010	mg/L		01/27/20 07:38	01/27/20 12:20	1
Cobalt	ND		0.0040	0.00063	mg/L		01/27/20 07:38	01/27/20 12:20	1
Copper	ND		0.010	0.0016	mg/L		01/27/20 07:38	01/27/20 12:20	1
Iron	ND		0.050	0.019	mg/L		01/27/20 07:38	01/27/20 12:20	1
Lead	ND		0.010	0.0030	mg/L		01/27/20 07:38	01/27/20 12:20	1
Magnesium	ND		0.20	0.043	mg/L		01/27/20 07:38	01/27/20 12:20	1
Manganese	ND		0.0030	0.00040	mg/L		01/27/20 07:38	01/27/20 12:20	1
Nickel	ND		0.010	0.0013	mg/L		01/27/20 07:38	01/27/20 12:20	1
Potassium	ND		0.50	0.10	mg/L		01/27/20 07:38	01/27/20 12:20	1
Selenium	ND		0.025	0.0087	mg/L		01/27/20 07:38	01/27/20 12:20	1
Silver	ND		0.0060	0.0017	mg/L		01/27/20 07:38	01/27/20 12:20	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-514969/1-A

Matrix: Water

Analysis Batch: 515154

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 514969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0	0.32	mg/L		01/27/20 07:38	01/27/20 12:20	1
Thallium	ND		0.020	0.010	mg/L		01/27/20 07:38	01/27/20 12:20	1
Vanadium	ND		0.0050	0.0015	mg/L		01/27/20 07:38	01/27/20 12:20	1
Zinc	ND		0.010	0.0015	mg/L		01/27/20 07:38	01/27/20 12:20	1

Lab Sample ID: LCS 480-514969/2-A

Matrix: Water

Analysis Batch: 515154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 514969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.20		mg/L		92	80 - 120
Antimony	0.200	0.206		mg/L		103	80 - 120
Arsenic	0.200	0.189		mg/L		95	80 - 120
Barium	0.200	0.198		mg/L		99	80 - 120
Beryllium	0.200	0.197		mg/L		99	80 - 120
Boron	0.200	0.187		mg/L		94	80 - 120
Cadmium	0.200	0.190		mg/L		95	80 - 120
Calcium	10.0	9.38		mg/L		94	80 - 120
Chromium	0.200	0.184		mg/L		92	80 - 120
Cobalt	0.200	0.176		mg/L		88	80 - 120
Copper	0.200	0.186		mg/L		93	80 - 120
Iron	10.0	9.39		mg/L		94	80 - 120
Lead	0.200	0.180		mg/L		90	80 - 120
Magnesium	10.0	9.24		mg/L		92	80 - 120
Manganese	0.200	0.188		mg/L		94	80 - 120
Nickel	0.200	0.181		mg/L		91	80 - 120
Potassium	10.0	9.32		mg/L		93	80 - 120
Selenium	0.200	0.183		mg/L		92	80 - 120
Silver	0.0500	0.0457		mg/L		91	80 - 120
Sodium	10.0	9.11		mg/L		91	80 - 120
Thallium	0.200	0.192		mg/L		96	80 - 120
Vanadium	0.200	0.186		mg/L		93	80 - 120
Zinc	0.200	0.186		mg/L		93	80 - 120

Lab Sample ID: LCSD 480-514969/3-A

Matrix: Water

Analysis Batch: 515154

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 514969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	10.0	9.07		mg/L		91	80 - 120	1	20
Antimony	0.200	0.204		mg/L		102	80 - 120	1	20
Arsenic	0.200	0.190		mg/L		95	80 - 120	0	20
Barium	0.200	0.196		mg/L		98	80 - 120	1	20
Beryllium	0.200	0.194		mg/L		97	80 - 120	2	20
Boron	0.200	0.185		mg/L		93	80 - 120	1	20
Cadmium	0.200	0.188		mg/L		94	80 - 120	1	20
Calcium	10.0	9.28		mg/L		93	80 - 120	1	20
Chromium	0.200	0.183		mg/L		91	80 - 120	1	20
Cobalt	0.200	0.174		mg/L		87	80 - 120	1	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 480-514969/3-A

Matrix: Water

Analysis Batch: 515154

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 514969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	0.200	0.185		mg/L		93	80 - 120	0	20
Iron	10.0	9.29		mg/L		93	80 - 120	1	20
Lead	0.200	0.180		mg/L		90	80 - 120	0	20
Magnesium	10.0	9.16		mg/L		92	80 - 120	1	20
Manganese	0.200	0.186		mg/L		93	80 - 120	1	20
Nickel	0.200	0.179		mg/L		89	80 - 120	2	20
Potassium	10.0	9.18		mg/L		92	80 - 120	1	20
Selenium	0.200	0.179		mg/L		89	80 - 120	2	20
Silver	0.0500	0.0447		mg/L		89	80 - 120	2	20
Sodium	10.0	9.01		mg/L		90	80 - 120	1	20
Thallium	0.200	0.190		mg/L		95	80 - 120	1	20
Vanadium	0.200	0.184		mg/L		92	80 - 120	1	20
Zinc	0.200	0.184		mg/L		92	80 - 120	1	20

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515154

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 514969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.17		mg/L		92	75 - 125		
Antimony	ND		0.200	0.212		mg/L		106	75 - 125		
Arsenic	ND		0.200	0.196		mg/L		98	75 - 125		
Barium	0.051		0.200	0.243		mg/L		96	75 - 125		
Beryllium	ND		0.200	0.197		mg/L		98	75 - 125		
Boron	0.011	J	0.200	0.199		mg/L		94	75 - 125		
Cadmium	0.00050	J	0.200	0.192		mg/L		96	75 - 125		
Calcium	127		10.0	131.8	4	mg/L		44	75 - 125		
Chromium	ND		0.200	0.184		mg/L		92	75 - 125		
Cobalt	ND		0.200	0.181		mg/L		90	75 - 125		
Copper	ND		0.200	0.186		mg/L		93	75 - 125		
Iron	ND		10.0	9.30		mg/L		93	75 - 125		
Lead	ND		0.200	0.186		mg/L		93	75 - 125		
Magnesium	26.5		10.0	34.92		mg/L		84	75 - 125		
Manganese	ND		0.200	0.184		mg/L		92	75 - 125		
Nickel	ND		0.200	0.185		mg/L		93	75 - 125		
Potassium	1.3		10.0	10.67		mg/L		93	75 - 125		
Selenium	ND		0.200	0.185		mg/L		92	75 - 125		
Silver	ND		0.0500	0.0460		mg/L		92	75 - 125		
Sodium	79.7		10.0	86.33	4	mg/L		66	75 - 125		
Thallium	ND		0.200	0.187		mg/L		93	75 - 125		
Vanadium	ND		0.200	0.188		mg/L		94	75 - 125		
Zinc	ND		0.200	0.188		mg/L		94	75 - 125		

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515154

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 514969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.17		mg/L		92	75 - 125	0	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515154

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Prep Batch: 514969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.200	0.208		mg/L		104	75 - 125	2	20
Arsenic	ND		0.200	0.196		mg/L		98	75 - 125	0	20
Barium	0.051		0.200	0.240		mg/L		94	75 - 125	1	20
Beryllium	ND		0.200	0.196		mg/L		98	75 - 125	1	20
Boron	0.011	J	0.200	0.198		mg/L		94	75 - 125	1	20
Cadmium	0.00050	J	0.200	0.190		mg/L		95	75 - 125	1	20
Calcium	127		10.0	133.4	4	mg/L		60	75 - 125	1	20
Chromium	ND		0.200	0.181		mg/L		91	75 - 125	2	20
Cobalt	ND		0.200	0.178		mg/L		89	75 - 125	1	20
Copper	ND		0.200	0.183		mg/L		92	75 - 125	2	20
Iron	ND		10.0	9.21		mg/L		92	75 - 125	1	20
Lead	ND		0.200	0.183		mg/L		92	75 - 125	2	20
Magnesium	26.5		10.0	34.82		mg/L		83	75 - 125	0	20
Manganese	ND		0.200	0.182		mg/L		91	75 - 125	1	20
Nickel	ND		0.200	0.182		mg/L		91	75 - 125	2	20
Potassium	1.3		10.0	10.59		mg/L		92	75 - 125	1	20
Selenium	ND		0.200	0.188		mg/L		94	75 - 125	2	20
Silver	ND		0.0500	0.0441		mg/L		88	75 - 125	4	20
Sodium	79.7		10.0	86.52	4	mg/L		68	75 - 125	0	20
Thallium	ND		0.200	0.187		mg/L		94	75 - 125	0	20
Vanadium	ND		0.200	0.186		mg/L		93	75 - 125	1	20
Zinc	ND		0.200	0.185		mg/L		93	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-514840/1-A

Matrix: Water

Analysis Batch: 514905

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 514840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/24/20 11:34	01/24/20 15:26	1

Lab Sample ID: LCS 480-514840/2-A

Matrix: Water

Analysis Batch: 514905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 514840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00708		mg/L		106	80 - 120

Lab Sample ID: MB 480-515195/1-A

Matrix: Water

Analysis Batch: 515278

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 515195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/28/20 11:50	01/28/20 14:50	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-515195/2-A
Matrix: Water
Analysis Batch: 515278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 515195
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00667	0.00663		mg/L		99	80 - 120

Lab Sample ID: MB 480-515196/1-A
Matrix: Water
Analysis Batch: 515278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 515196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/28/20 11:50	01/28/20 15:28	1

Lab Sample ID: LCS 480-515196/2-A
Matrix: Water
Analysis Batch: 515278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 515196
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00667	0.00683		mg/L		102	80 - 120

Lab Sample ID: 480-165515-3 MS
Matrix: Water
Analysis Batch: 515278

Client Sample ID: 5-WAR-001-002-03
Prep Type: Total/NA
Prep Batch: 515196
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	ND		0.00667	0.00673		mg/L		101	80 - 120

Lab Sample ID: 480-165515-3 MSD
Matrix: Water
Analysis Batch: 515278

Client Sample ID: 5-WAR-001-002-03
Prep Type: Total/NA
Prep Batch: 515196
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	ND		0.00667	0.00687		mg/L		103	80 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-514849/4
Matrix: Water
Analysis Batch: 514849

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.073	mg/L			01/24/20 23:43	1
Chloride	ND		0.50	0.28	mg/L			01/24/20 23:43	1
Sulfate	ND		2.0	0.35	mg/L			01/24/20 23:43	1

Lab Sample ID: LCS 480-514849/3
Matrix: Water
Analysis Batch: 514849

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Bromide	5.00	4.97		mg/L		99	90 - 110
Chloride	50.0	50.07		mg/L		100	90 - 110
Sulfate	50.0	50.24		mg/L		100	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-515184/28

Matrix: Water

Analysis Batch: 515184

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.073	mg/L			01/28/20 19:59	1
Chloride	ND		0.50	0.28	mg/L			01/28/20 19:59	1
Sulfate	ND		2.0	0.35	mg/L			01/28/20 19:59	1

Lab Sample ID: MB 480-515184/4

Matrix: Water

Analysis Batch: 515184

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.073	mg/L			01/28/20 13:52	1
Chloride	ND		0.50	0.28	mg/L			01/28/20 13:52	1
Sulfate	ND		2.0	0.35	mg/L			01/28/20 13:52	1

Lab Sample ID: LCS 480-515184/27

Matrix: Water

Analysis Batch: 515184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.05		mg/L		101	90 - 110
Chloride	50.0	54.28		mg/L		109	90 - 110
Sulfate	50.0	53.11		mg/L		106	90 - 110

Lab Sample ID: LCS 480-515184/3

Matrix: Water

Analysis Batch: 515184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	4.93		mg/L		99	90 - 110
Chloride	50.0	53.78		mg/L		108	90 - 110
Sulfate	50.0	53.14		mg/L		106	90 - 110

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515184

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND		25.0	22.42		mg/L		90	80 - 120
Chloride	193		250	446.5		mg/L		102	81 - 120
Sulfate	21.7		250	280.9		mg/L		104	80 - 120

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515184

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	ND		25.0	22.50		mg/L		90	80 - 120	0	15
Chloride	193		250	449.1		mg/L		103	81 - 120	1	15
Sulfate	21.7		250	285.1		mg/L		105	80 - 120	1	15

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-165581-4 MS

Matrix: Water

Analysis Batch: 515184

Client Sample ID: 5-WAR-001-003-04

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND		25.0	23.82		mg/L		95	80 - 120
Chloride	1.4	J	250	266.1		mg/L		106	81 - 120
Sulfate	72.2		250	328.7		mg/L		103	80 - 120

Lab Sample ID: MB 480-515367/4

Matrix: Water

Analysis Batch: 515367

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.073	mg/L			01/29/20 13:08	1
Chloride	ND		0.50	0.28	mg/L			01/29/20 13:08	1
Sulfate	ND		2.0	0.35	mg/L			01/29/20 13:08	1

Lab Sample ID: LCS 480-515367/3

Matrix: Water

Analysis Batch: 515367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.04		mg/L		101	90 - 110
Chloride	50.0	49.43		mg/L		99	90 - 110
Sulfate	50.0	49.38		mg/L		99	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-514731/3

Matrix: Water

Analysis Batch: 514731

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			01/23/20 14:05	1

Lab Sample ID: LCS 480-514731/4

Matrix: Water

Analysis Batch: 514731

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.06		mg/L		106	90 - 110

Lab Sample ID: 480-165462-1 MS

Matrix: Water

Analysis Batch: 514731

Client Sample ID: 5-WAR-001-001-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		0.200	0.194		mg/L		97	90 - 110

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-165462-1 DU

Matrix: Water

Analysis Batch: 514731

Client Sample ID: 5-WAR-001-001-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia	ND		ND		mg/L		NC	20

Lab Sample ID: MB 480-515060/123

Matrix: Water

Analysis Batch: 515060

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			01/27/20 11:28	1

Lab Sample ID: MB 480-515060/27

Matrix: Water

Analysis Batch: 515060

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			01/27/20 10:06	1

Lab Sample ID: MB 480-515060/51

Matrix: Water

Analysis Batch: 515060

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			01/27/20 10:27	1

Lab Sample ID: MB 480-515060/99

Matrix: Water

Analysis Batch: 515060

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			01/27/20 11:08	1

Lab Sample ID: LCS 480-515060/100

Matrix: Water

Analysis Batch: 515060

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.978		mg/L		98	90 - 110

Lab Sample ID: LCS 480-515060/124

Matrix: Water

Analysis Batch: 515060

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.980		mg/L		98	90 - 110

Lab Sample ID: LCS 480-515060/28

Matrix: Water

Analysis Batch: 515060

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.985		mg/L		99	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-515060/52

Matrix: Water

Analysis Batch: 515060

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.986		mg/L		99	90 - 110

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515060

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		0.200	0.197		mg/L		99	90 - 110

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515060

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		0.200	0.192		mg/L		96	90 - 110	3	20

Method: 410.4 - COD

Lab Sample ID: MB 480-515375/4

Matrix: Water

Analysis Batch: 515375

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			01/28/20 13:43	1

Lab Sample ID: LCS 480-515375/5

Matrix: Water

Analysis Batch: 515375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.11		mg/L		100	90 - 110

Lab Sample ID: 480-165462-1 MS

Matrix: Water

Analysis Batch: 515375

Client Sample ID: 5-WAR-001-001-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	16.8		50.0	60.33		mg/L		87	75 - 125

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515375

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	23.9	F1	50.0	63.25		mg/L		79	75 - 125

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 410.4 - COD (Continued)

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515375

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	23.9	F1	50.0	61.00	F1	mg/L		74	75 - 125	4	20

Lab Sample ID: MB 480-515415/27

Matrix: Water

Analysis Batch: 515415

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			01/29/20 12:20	1

Lab Sample ID: LCS 480-515415/28

Matrix: Water

Analysis Batch: 515415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.62		mg/L		98	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-515167/4

Matrix: Water

Analysis Batch: 515167

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			01/24/20 19:44	1

Lab Sample ID: MB 480-515167/51

Matrix: Water

Analysis Batch: 515167

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			01/25/20 17:24	1

Lab Sample ID: LCS 480-515167/5

Matrix: Water

Analysis Batch: 515167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	58.90		mg/L		98	90 - 110

Lab Sample ID: LCS 480-515167/52

Matrix: Water

Analysis Batch: 515167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	57.34		mg/L		96	90 - 110

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515167

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.96	J	22.7	25.21		mg/L		107	54 - 131

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515167

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	0.96	J	22.7	25.91		mg/L		110	54 - 131	3	20

Lab Sample ID: MB 480-515406/4

Matrix: Water

Analysis Batch: 515406

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			01/28/20 16:00	1

Lab Sample ID: LCS 480-515406/5

Matrix: Water

Analysis Batch: 515406

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	58.90		mg/L		98	90 - 110

Lab Sample ID: 480-165581-5 MS

Matrix: Water

Analysis Batch: 515406

Client Sample ID: 5-WAR-001-003-05

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	4.0		22.7	29.72		mg/L		113	54 - 131

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-515865/7

Matrix: Water

Analysis Batch: 515865

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	1.73	J	5.0	0.79	mg/L			01/31/20 20:15	1

Lab Sample ID: LCS 480-515865/8

Matrix: Water

Analysis Batch: 515865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	93.30		mg/L		93	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 480-165515-3 MS

Matrix: Water

Analysis Batch: 515865

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	349	B F1	100	404.0	F1	mg/L		55	60 - 140

Lab Sample ID: 480-165515-3 MSD

Matrix: Water

Analysis Batch: 515865

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	349	B F1	100	402.7	F1	mg/L		54	60 - 140	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-514853/1

Matrix: Water

Analysis Batch: 514853

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			01/24/20 11:08	1

Lab Sample ID: LCS 480-514853/2

Matrix: Water

Analysis Batch: 514853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	533	585.0		mg/L		110	85 - 115

Lab Sample ID: MB 480-514923/1

Matrix: Water

Analysis Batch: 514923

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			01/25/20 11:39	1

Lab Sample ID: LCS 480-514923/2

Matrix: Water

Analysis Batch: 514923

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	533	547.0		mg/L		103	85 - 115

Lab Sample ID: 480-165515-3 DU

Matrix: Water

Analysis Batch: 514923

Client Sample ID: 5-WAR-001-002-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	766		750.0		mg/L		2	10

QC Sample Results

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 480-515068/1

Matrix: Water

Analysis Batch: 515068

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			01/27/20 12:32	1

Lab Sample ID: LCS 480-515068/2

Matrix: Water

Analysis Batch: 515068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	533	480.0		mg/L		90	85 - 115

QC Association Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

GC/MS VOA

Analysis Batch: 515054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	8260C	
480-165462-4	5-WAR-001-001-04	Total/NA	Water	8260C	
MB 480-515054/7	Method Blank	Total/NA	Water	8260C	
LCS 480-515054/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 515680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165515-3	5-WAR-001-002-03	Total/NA	Water	8260C	
480-165515-4	5-WAR-001-002-04	Total/NA	Water	8260C	
MB 480-515680/8	Method Blank	Total/NA	Water	8260C	
LCS 480-515680/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 515681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-4	5-WAR-001-003-04	Total/NA	Water	8260C	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	8260C	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	8260C	
480-165581-7	5-WAR-001-003-07	Total/NA	Water	8260C	
MB 480-515681/7	Method Blank	Total/NA	Water	8260C	
LCS 480-515681/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 515811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165586-1	5-WAR-001-004-01	Total/NA	Water	8260C	
480-165586-3	5-WAR-001-004-03	Total/NA	Water	8260C	
MB 480-515811/8	Method Blank	Total/NA	Water	8260C	
LCS 480-515811/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 515831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-515831/7	Method Blank	Total/NA	Water	8260C	
LCS 480-515831/5	Lab Control Sample	Total/NA	Water	8260C	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	8260C	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 515019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	3510C	
480-165515-3	5-WAR-001-002-03	Total/NA	Water	3510C	
480-165581-4	5-WAR-001-003-04	Total/NA	Water	3510C	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	3510C	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	3510C	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	3510C	
MB 480-515019/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-515019/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	3510C	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	3510C	

QC Association Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

GC/MS Semi VOA

Prep Batch: 515091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	3510C	
480-165515-3	5-WAR-001-002-03	Total/NA	Water	3510C	
480-165581-4	5-WAR-001-003-04	Total/NA	Water	3510C	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	3510C	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	3510C	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	3510C	
MB 480-515091/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-515091/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	3510C	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	3510C	

Analysis Batch: 515221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	8270D SIM ID	515019
480-165515-3	5-WAR-001-002-03	Total/NA	Water	8270D SIM ID	515019
480-165581-4	5-WAR-001-003-04	Total/NA	Water	8270D SIM ID	515019
480-165581-5	5-WAR-001-003-05	Total/NA	Water	8270D SIM ID	515019
480-165586-1	5-WAR-001-004-01	Total/NA	Water	8270D SIM ID	515019
MB 480-515019/1-A	Method Blank	Total/NA	Water	8270D SIM ID	515019
LCS 480-515019/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	515019
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	8270D SIM ID	515019
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	8270D SIM ID	515019

Analysis Batch: 515222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	8270D_LL_PAH	515091
480-165515-3	5-WAR-001-002-03	Total/NA	Water	8270D_LL_PAH	515091
480-165581-4	5-WAR-001-003-04	Total/NA	Water	8270D_LL_PAH	515091
480-165581-5	5-WAR-001-003-05	Total/NA	Water	8270D_LL_PAH	515091
480-165581-6	5-WAR-001-003-06	Total/NA	Water	8270D_LL_PAH	515091
480-165586-1	5-WAR-001-004-01	Total/NA	Water	8270D_LL_PAH	515091
MB 480-515091/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	515091
LCS 480-515091/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	515091
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	8270D_LL_PAH	515091
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	8270D_LL_PAH	515091

Analysis Batch: 515404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-6	5-WAR-001-003-06	Total/NA	Water	8270D SIM ID	515019

LCMS

Prep Batch: 151845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	3535	
480-165462-2	5-WAR-001-001-02	Total/NA	Water	3535	
480-165462-3	5-WAR-001-001-03	Total/NA	Water	3535	
480-165515-1	5-WAR-001-002-01	Total/NA	Water	3535	
480-165515-2	5-WAR-001-002-02	Total/NA	Water	3535	
480-165515-3	5-WAR-001-002-03	Total/NA	Water	3535	
MB 200-151845/1-A	Method Blank	Total/NA	Water	3535	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

LCMS (Continued)

Prep Batch: 151845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-151845/2-A	Lab Control Sample	Total/NA	Water	3535	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	3535	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	3535	

Analysis Batch: 151851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	537 (modified)	151845
480-165462-2	5-WAR-001-001-02	Total/NA	Water	537 (modified)	151845
480-165462-3	5-WAR-001-001-03	Total/NA	Water	537 (modified)	151845
480-165515-1	5-WAR-001-002-01	Total/NA	Water	537 (modified)	151845
480-165515-2	5-WAR-001-002-02	Total/NA	Water	537 (modified)	151845
480-165515-3	5-WAR-001-002-03	Total/NA	Water	537 (modified)	151845
LCS 200-151845/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	151845
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	537 (modified)	151845
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	537 (modified)	151845

Prep Batch: 151852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-1	5-WAR-001-003-01	Total/NA	Water	3535	
480-165581-2	5-WAR-001-003-02	Total/NA	Water	3535	
480-165581-3	5-WAR-001-003-03	Total/NA	Water	3535	
480-165581-4	5-WAR-001-003-04	Total/NA	Water	3535	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	3535	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	3535	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	3535	
MB 200-151852/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-151852/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 151857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-1	5-WAR-001-003-01	Total/NA	Water	537 (modified)	151852
480-165581-2	5-WAR-001-003-02	Total/NA	Water	537 (modified)	151852
480-165581-3	5-WAR-001-003-03	Total/NA	Water	537 (modified)	151852
480-165581-4	5-WAR-001-003-04	Total/NA	Water	537 (modified)	151852
480-165581-5	5-WAR-001-003-05	Total/NA	Water	537 (modified)	151852
480-165581-6	5-WAR-001-003-06	Total/NA	Water	537 (modified)	151852
480-165586-1	5-WAR-001-004-01	Total/NA	Water	537 (modified)	151852
MB 200-151852/1-A	Method Blank	Total/NA	Water	537 (modified)	151852
LCS 200-151852/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	151852

Analysis Batch: 151922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 200-151845/1-A	Method Blank	Total/NA	Water	537 (modified)	151845

Prep Batch: 151925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165586-2	5-WAR-001-004-02	Total/NA	Water	3535	
MB 200-151925/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-151925/2-A	Lab Control Sample	Total/NA	Water	3535	

QC Association Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

LCMS

Analysis Batch: 152174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165586-2	5-WAR-001-004-02	Total/NA	Water	537 (modified)	151925
MB 200-151925/1-A	Method Blank	Total/NA	Water	537 (modified)	151925
LCS 200-151925/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	151925

Metals

Prep Batch: 514780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	3005A	
MB 480-514780/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-514780/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 514840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	7470A	
MB 480-514840/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-514840/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 514905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	7470A	514840
MB 480-514840/1-A	Method Blank	Total/NA	Water	7470A	514840
LCS 480-514840/2-A	Lab Control Sample	Total/NA	Water	7470A	514840

Prep Batch: 514967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-4	5-WAR-001-003-04	Total/NA	Water	3005A	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	3005A	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	3005A	
MB 480-514967/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-514967/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 514969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165515-3	5-WAR-001-002-03	Total/NA	Water	3005A	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	3005A	
MB 480-514969/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-514969/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-514969/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	3005A	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	3005A	

Analysis Batch: 515030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	6010C	514780
MB 480-514780/1-A	Method Blank	Total/NA	Water	6010C	514780
LCS 480-514780/2-A	Lab Control Sample	Total/NA	Water	6010C	514780

Analysis Batch: 515152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-4	5-WAR-001-003-04	Total/NA	Water	6010C	514967

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QC Association Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Metals (Continued)

Analysis Batch: 515152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-5	5-WAR-001-003-05	Total/NA	Water	6010C	514967
480-165581-6	5-WAR-001-003-06	Total/NA	Water	6010C	514967
MB 480-514967/1-A	Method Blank	Total/NA	Water	6010C	514967
LCS 480-514967/2-A	Lab Control Sample	Total/NA	Water	6010C	514967

Analysis Batch: 515154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165515-3	5-WAR-001-002-03	Total/NA	Water	6010C	514969
480-165586-1	5-WAR-001-004-01	Total/NA	Water	6010C	514969
MB 480-514969/1-A	Method Blank	Total/NA	Water	6010C	514969
LCS 480-514969/2-A	Lab Control Sample	Total/NA	Water	6010C	514969
LCSD 480-514969/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	514969
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	6010C	514969
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	6010C	514969

Prep Batch: 515195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-4	5-WAR-001-003-04	Total/NA	Water	7470A	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	7470A	
MB 480-515195/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-515195/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 515196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165515-3	5-WAR-001-002-03	Total/NA	Water	7470A	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	7470A	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	7470A	
MB 480-515196/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-515196/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	7470A	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	7470A	

Analysis Batch: 515278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165515-3	5-WAR-001-002-03	Total/NA	Water	7470A	515196
480-165581-4	5-WAR-001-003-04	Total/NA	Water	7470A	515195
480-165581-5	5-WAR-001-003-05	Total/NA	Water	7470A	515195
480-165581-6	5-WAR-001-003-06	Total/NA	Water	7470A	515196
480-165586-1	5-WAR-001-004-01	Total/NA	Water	7470A	515196
MB 480-515195/1-A	Method Blank	Total/NA	Water	7470A	515195
MB 480-515196/1-A	Method Blank	Total/NA	Water	7470A	515196
LCS 480-515195/2-A	Lab Control Sample	Total/NA	Water	7470A	515195
LCS 480-515196/2-A	Lab Control Sample	Total/NA	Water	7470A	515196
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	7470A	515196
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	7470A	515196

Analysis Batch: 515443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	SM 2340B	
480-165515-3	5-WAR-001-002-03	Total/NA	Water	SM 2340B	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	SM 2340B	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Metals

Analysis Batch: 515542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-4	5-WAR-001-003-04	Total/NA	Water	6010C	514967
480-165581-5	5-WAR-001-003-05	Total/NA	Water	6010C	514967
480-165581-6	5-WAR-001-003-06	Total/NA	Water	6010C	514967
MB 480-514967/1-A	Method Blank	Total/NA	Water	6010C	514967
LCS 480-514967/2-A	Lab Control Sample	Total/NA	Water	6010C	514967

Analysis Batch: 515610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-4	5-WAR-001-003-04	Total/NA	Water	SM 2340B	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	SM 2340B	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 514731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	350.1	
MB 480-514731/3	Method Blank	Total/NA	Water	350.1	
LCS 480-514731/4	Lab Control Sample	Total/NA	Water	350.1	
480-165462-1 MS	5-WAR-001-001-01	Total/NA	Water	350.1	
480-165462-1 DU	5-WAR-001-001-01	Total/NA	Water	350.1	

Analysis Batch: 514849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	300.0	
MB 480-514849/4	Method Blank	Total/NA	Water	300.0	
LCS 480-514849/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 514853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	SM 2540C	
MB 480-514853/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-514853/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 514923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165515-3	5-WAR-001-002-03	Total/NA	Water	SM 2540C	
MB 480-514923/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-514923/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-165515-3 DU	5-WAR-001-002-03	Total/NA	Water	SM 2540C	

Analysis Batch: 515060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165515-3	5-WAR-001-002-03	Total/NA	Water	350.1	
480-165581-4	5-WAR-001-003-04	Total/NA	Water	350.1	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	350.1	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	350.1	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	350.1	
MB 480-515060/123	Method Blank	Total/NA	Water	350.1	
MB 480-515060/27	Method Blank	Total/NA	Water	350.1	
MB 480-515060/51	Method Blank	Total/NA	Water	350.1	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

General Chemistry (Continued)

Analysis Batch: 515060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-515060/99	Method Blank	Total/NA	Water	350.1	
LCS 480-515060/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-515060/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-515060/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-515060/52	Lab Control Sample	Total/NA	Water	350.1	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	350.1	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	350.1	

Analysis Batch: 515068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-4	5-WAR-001-003-04	Total/NA	Water	SM 2540C	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	SM 2540C	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	SM 2540C	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	SM 2540C	
MB 480-515068/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-515068/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 515167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	9060A	
480-165515-3	5-WAR-001-002-03	Total/NA	Water	9060A	
MB 480-515167/4	Method Blank	Total/NA	Water	9060A	
MB 480-515167/51	Method Blank	Total/NA	Water	9060A	
LCS 480-515167/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-515167/52	Lab Control Sample	Total/NA	Water	9060A	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	9060A	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	9060A	

Analysis Batch: 515184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165515-3	5-WAR-001-002-03	Total/NA	Water	300.0	
480-165581-4	5-WAR-001-003-04	Total/NA	Water	300.0	
MB 480-515184/28	Method Blank	Total/NA	Water	300.0	
MB 480-515184/4	Method Blank	Total/NA	Water	300.0	
LCS 480-515184/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-515184/3	Lab Control Sample	Total/NA	Water	300.0	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	300.0	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	300.0	
480-165581-4 MS	5-WAR-001-003-04	Total/NA	Water	300.0	

Analysis Batch: 515367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-5	5-WAR-001-003-05	Total/NA	Water	300.0	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	300.0	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	300.0	
MB 480-515367/4	Method Blank	Total/NA	Water	300.0	
LCS 480-515367/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 515375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	410.4	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

General Chemistry (Continued)

Analysis Batch: 515375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165515-3	5-WAR-001-002-03	Total/NA	Water	410.4	
MB 480-515375/4	Method Blank	Total/NA	Water	410.4	
LCS 480-515375/5	Lab Control Sample	Total/NA	Water	410.4	
480-165462-1 MS	5-WAR-001-001-01	Total/NA	Water	410.4	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	410.4	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	410.4	

Analysis Batch: 515406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-4	5-WAR-001-003-04	Total/NA	Water	9060A	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	9060A	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	9060A	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	9060A	
MB 480-515406/4	Method Blank	Total/NA	Water	9060A	
LCS 480-515406/5	Lab Control Sample	Total/NA	Water	9060A	
480-165581-5 MS	5-WAR-001-003-05	Total/NA	Water	9060A	

Analysis Batch: 515415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165581-4	5-WAR-001-003-04	Total/NA	Water	410.4	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	410.4	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	410.4	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	410.4	
MB 480-515415/27	Method Blank	Total/NA	Water	410.4	
LCS 480-515415/28	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 515865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165462-1	5-WAR-001-001-01	Total/NA	Water	SM 2320B	
480-165515-3	5-WAR-001-002-03	Total/NA	Water	SM 2320B	
480-165581-4	5-WAR-001-003-04	Total/NA	Water	SM 2320B	
480-165581-5	5-WAR-001-003-05	Total/NA	Water	SM 2320B	
480-165581-6	5-WAR-001-003-06	Total/NA	Water	SM 2320B	
480-165586-1	5-WAR-001-004-01	Total/NA	Water	SM 2320B	
MB 480-515865/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-515865/8	Lab Control Sample	Total/NA	Water	SM 2320B	
480-165515-3 MS	5-WAR-001-002-03	Total/NA	Water	SM 2320B	
480-165515-3 MSD	5-WAR-001-002-03	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-001-01

Lab Sample ID: 480-165462-1

Date Collected: 01/21/20 16:50

Matrix: Water

Date Received: 01/23/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515054	01/27/20 14:06	CDC	TAL BUF
Total/NA	Prep	3510C			515019	01/27/20 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	515221	01/28/20 15:28	RJS	TAL BUF
Total/NA	Prep	3510C			515091	01/27/20 15:41	ATG	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	515222	01/29/20 04:13	RJS	TAL BUF
Total/NA	Prep	3535			151845	01/29/20 10:40	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151851	01/29/20 18:03	MBM	TAL BUR
Total/NA	Prep	3005A			514780	01/24/20 08:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515030	01/24/20 15:34	LMH	TAL BUF
Total/NA	Prep	7470A			514840	01/24/20 11:34	BMB	TAL BUF
Total/NA	Analysis	7470A		1	514905	01/24/20 15:56	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	515443	01/29/20 14:05	LMH	TAL BUF
Total/NA	Analysis	300.0		5	514849	01/24/20 23:57	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	514731	01/23/20 14:18	CLT	TAL BUF
Total/NA	Analysis	410.4		1	515375	01/28/20 13:43	CSS	TAL BUF
Total/NA	Analysis	9060A		1	515167	01/25/20 02:55	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	515865	01/31/20 20:29	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	514853	01/24/20 11:08	CSS	TAL BUF

Client Sample ID: 5-WAR-001-001-02

Lab Sample ID: 480-165462-2

Date Collected: 01/21/20 16:55

Matrix: Water

Date Received: 01/23/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151845	01/29/20 10:40	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151851	01/29/20 18:12	MBM	TAL BUR

Client Sample ID: 5-WAR-001-001-03

Lab Sample ID: 480-165462-3

Date Collected: 01/21/20 17:30

Matrix: Water

Date Received: 01/23/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151845	01/29/20 10:40	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151851	01/29/20 18:20	MBM	TAL BUR

Client Sample ID: 5-WAR-001-001-04

Lab Sample ID: 480-165462-4

Date Collected: 01/21/20 00:00

Matrix: Water

Date Received: 01/23/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515054	01/27/20 14:29	CDC	TAL BUF

Lab Chronicle

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-002-01

Lab Sample ID: 480-165515-1

Date Collected: 01/22/20 09:40

Matrix: Water

Date Received: 01/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151845	01/29/20 10:40	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151851	01/29/20 19:25	MBM	TAL BUR

Client Sample ID: 5-WAR-001-002-02

Lab Sample ID: 480-165515-2

Date Collected: 01/22/20 09:45

Matrix: Water

Date Received: 01/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151845	01/29/20 10:40	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151851	01/29/20 19:33	MBM	TAL BUR

Client Sample ID: 5-WAR-001-002-03

Lab Sample ID: 480-165515-3

Date Collected: 01/22/20 13:00

Matrix: Water

Date Received: 01/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515680	01/31/20 14:49	LCH	TAL BUF
Total/NA	Prep	3510C			515019	01/27/20 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	515221	01/28/20 14:39	RJS	TAL BUF
Total/NA	Prep	3510C			515091	01/27/20 15:41	ATG	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	515222	01/29/20 03:45	RJS	TAL BUF
Total/NA	Prep	3535			151845	01/29/20 10:40	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151851	01/29/20 19:42	MBM	TAL BUR
Total/NA	Prep	3005A			514969	01/27/20 07:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515154	01/27/20 13:04	LMH	TAL BUF
Total/NA	Prep	7470A			515196	01/28/20 11:50	BMB	TAL BUF
Total/NA	Analysis	7470A		1	515278	01/28/20 15:33	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	515443	01/29/20 14:05	LMH	TAL BUF
Total/NA	Analysis	300.0		5	515184	01/28/20 15:44	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	515060	01/27/20 10:37	CLT	TAL BUF
Total/NA	Analysis	410.4		1	515375	01/28/20 13:43	CSS	TAL BUF
Total/NA	Analysis	9060A		1	515167	01/25/20 18:18	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	515865	01/31/20 20:36	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	514923	01/25/20 11:39	CSS	TAL BUF

Client Sample ID: 5-WAR-001-002-04

Lab Sample ID: 480-165515-4

Date Collected: 01/22/20 00:00

Matrix: Water

Date Received: 01/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515680	01/31/20 15:13	LCH	TAL BUF

Lab Chronicle

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-01

Lab Sample ID: 480-165581-1

Date Collected: 01/23/20 09:40

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151852	01/29/20 13:33	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151857	01/29/20 21:03	ND	TAL BUR

Client Sample ID: 5-WAR-001-003-02

Lab Sample ID: 480-165581-2

Date Collected: 01/23/20 09:45

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151852	01/29/20 13:33	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151857	01/29/20 21:12	ND	TAL BUR

Client Sample ID: 5-WAR-001-003-03

Lab Sample ID: 480-165581-3

Date Collected: 01/23/20 09:50

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151852	01/29/20 13:33	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151857	01/29/20 21:20	ND	TAL BUR

Client Sample ID: 5-WAR-001-003-04

Lab Sample ID: 480-165581-4

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515681	01/31/20 10:46	OMI	TAL BUF
Total/NA	Prep	3510C			515019	01/27/20 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	515221	01/28/20 19:23	RJS	TAL BUF
Total/NA	Prep	3510C			515091	01/27/20 15:41	ATG	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	515222	01/29/20 04:41	RJS	TAL BUF
Total/NA	Prep	3535			151852	01/29/20 13:33	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151857	01/29/20 21:28	ND	TAL BUR
Total/NA	Prep	3005A			514967	01/27/20 07:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515152	01/27/20 20:36	AMH	TAL BUF
Total/NA	Prep	3005A			514967	01/27/20 07:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515542	01/29/20 19:40	AMH	TAL BUF
Total/NA	Prep	7470A			515195	01/28/20 11:50	BMB	TAL BUF
Total/NA	Analysis	7470A		1	515278	01/28/20 15:26	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	515610	01/30/20 14:03	JJP	TAL BUF
Total/NA	Analysis	300.0		5	515184	01/29/20 00:28	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	515060	01/27/20 11:30	CLT	TAL BUF
Total/NA	Analysis	410.4		1	515415	01/29/20 12:20	CSS	TAL BUF
Total/NA	Analysis	9060A		1	515406	01/28/20 16:55	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	515865	01/31/20 21:20	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	515068	01/27/20 12:32	T1S	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-05

Lab Sample ID: 480-165581-5

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515681	01/31/20 11:09	OMI	TAL BUF
Total/NA	Prep	3510C			515019	01/27/20 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	515221	01/28/20 19:46	RJS	TAL BUF
Total/NA	Prep	3510C			515091	01/27/20 15:41	ATG	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	515222	01/29/20 05:09	RJS	TAL BUF
Total/NA	Prep	3535			151852	01/29/20 13:33	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151857	01/29/20 21:36	ND	TAL BUR
Total/NA	Prep	3005A			514967	01/27/20 07:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515152	01/27/20 20:40	AMH	TAL BUF
Total/NA	Prep	3005A			514967	01/27/20 07:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515542	01/29/20 19:44	AMH	TAL BUF
Total/NA	Prep	7470A			515195	01/28/20 11:50	BMB	TAL BUF
Total/NA	Analysis	7470A		1	515278	01/28/20 15:27	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	515610	01/30/20 14:03	JJP	TAL BUF
Total/NA	Analysis	300.0		5	515367	01/29/20 13:22	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	515060	01/27/20 11:31	CLT	TAL BUF
Total/NA	Analysis	410.4		1	515415	01/29/20 12:20	CSS	TAL BUF
Total/NA	Analysis	9060A		1	515406	01/28/20 17:49	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	515865	01/31/20 21:28	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	515068	01/27/20 12:32	T1S	TAL BUF

Client Sample ID: 5-WAR-001-003-06

Lab Sample ID: 480-165581-6

Date Collected: 01/23/20 16:30

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515681	01/31/20 11:32	OMI	TAL BUF
Total/NA	Prep	3510C			515019	01/27/20 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	515404	01/29/20 13:33	RJS	TAL BUF
Total/NA	Prep	3510C			515091	01/27/20 15:41	ATG	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	515222	01/29/20 05:37	RJS	TAL BUF
Total/NA	Prep	3535			151852	01/29/20 13:33	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151857	01/29/20 21:44	ND	TAL BUR
Total/NA	Prep	3005A			514967	01/27/20 07:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515152	01/27/20 20:44	AMH	TAL BUF
Total/NA	Prep	3005A			514967	01/27/20 07:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515542	01/29/20 19:48	AMH	TAL BUF
Total/NA	Prep	7470A			515196	01/28/20 11:50	BMB	TAL BUF
Total/NA	Analysis	7470A		1	515278	01/28/20 15:31	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	515610	01/30/20 14:03	JJP	TAL BUF
Total/NA	Analysis	300.0		5	515367	01/29/20 13:36	IMZ	TAL BUF
Total/NA	Analysis	350.1		2	515060	01/27/20 11:45	CLT	TAL BUF
Total/NA	Analysis	410.4		1	515415	01/29/20 12:20	CSS	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-003-06

Lab Sample ID: 480-165581-6

Date Collected: 01/23/20 16:30

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	515406	01/28/20 19:36	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	515865	01/31/20 21:49	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	515068	01/27/20 12:32	T1S	TAL BUF

Client Sample ID: 5-WAR-001-003-07

Lab Sample ID: 480-165581-7

Date Collected: 01/23/20 00:00

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515681	01/31/20 11:55	OMI	TAL BUF

Client Sample ID: 5-WAR-001-004-01

Lab Sample ID: 480-165586-1

Date Collected: 01/24/20 11:05

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515811	01/31/20 22:44	AMM	TAL BUF
Total/NA	Prep	3510C			515019	01/27/20 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	515221	01/28/20 20:32	RJS	TAL BUF
Total/NA	Prep	3510C			515091	01/27/20 15:41	ATG	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	515222	01/29/20 06:06	RJS	TAL BUF
Total/NA	Prep	3535			151852	01/29/20 13:33	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151857	01/29/20 21:52	ND	TAL BUR
Total/NA	Prep	3005A			514969	01/27/20 07:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515154	01/27/20 14:14	LMH	TAL BUF
Total/NA	Prep	7470A			515196	01/28/20 11:50	BMB	TAL BUF
Total/NA	Analysis	7470A		1	515278	01/28/20 15:32	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	515443	01/29/20 14:05	LMH	TAL BUF
Total/NA	Analysis	300.0		2	515367	01/29/20 13:54	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	515060	01/27/20 11:33	CLT	TAL BUF
Total/NA	Analysis	410.4		1	515415	01/29/20 12:20	CSS	TAL BUF
Total/NA	Analysis	9060A		1	515406	01/28/20 20:03	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	515865	01/31/20 21:55	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	515068	01/27/20 12:32	T1S	TAL BUF

Client Sample ID: 5-WAR-001-004-02

Lab Sample ID: 480-165586-2

Date Collected: 01/24/20 11:40

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151925	01/31/20 10:56	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	152174	02/10/20 13:18	BWC	TAL BUR

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Client Sample ID: 5-WAR-001-004-03

Lab Sample ID: 480-165586-3

Date Collected: 01/24/20 00:00

Matrix: Water

Date Received: 01/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515811	01/31/20 23:08	AMM	TAL BUF

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-20 *
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Bromide
8260C		Water	1,2-Dibromoethane

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	03-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
537 (modified)	3535	Water	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (PFOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

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

Eurofins TestAmerica, Buffalo

Method Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
8270D_LL_PAH	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: O'Brien & Gere Engineers, Inc.
Project/Site: Queensbury LF , Region 5

Job ID: 480-165462-1
SDG: 480-165462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-165462-1	5-WAR-001-001-01	Water	01/21/20 16:50	01/23/20 08:00	
480-165462-2	5-WAR-001-001-02	Water	01/21/20 16:55	01/23/20 08:00	
480-165462-3	5-WAR-001-001-03	Water	01/21/20 17:30	01/23/20 08:00	
480-165462-4	5-WAR-001-001-04	Water	01/21/20 00:00	01/23/20 08:00	
480-165515-1	5-WAR-001-002-01	Water	01/22/20 09:40	01/24/20 08:00	
480-165515-2	5-WAR-001-002-02	Water	01/22/20 09:45	01/24/20 08:00	
480-165515-3	5-WAR-001-002-03	Water	01/22/20 13:00	01/24/20 08:00	
480-165515-4	5-WAR-001-002-04	Water	01/22/20 00:00	01/24/20 08:00	
480-165581-1	5-WAR-001-003-01	Water	01/23/20 09:40	01/25/20 08:00	
480-165581-2	5-WAR-001-003-02	Water	01/23/20 09:45	01/25/20 08:00	
480-165581-3	5-WAR-001-003-03	Water	01/23/20 09:50	01/25/20 08:00	
480-165581-4	5-WAR-001-003-04	Water	01/23/20 12:00	01/25/20 08:00	
480-165581-5	5-WAR-001-003-05	Water	01/23/20 12:00	01/25/20 08:00	
480-165581-6	5-WAR-001-003-06	Water	01/23/20 16:30	01/25/20 08:00	
480-165581-7	5-WAR-001-003-07	Water	01/23/20 00:00	01/25/20 08:00	
480-165586-1	5-WAR-001-004-01	Water	01/24/20 11:05	01/25/20 08:00	
480-165586-2	5-WAR-001-004-02	Water	01/24/20 11:40	01/25/20 08:00	
480-165586-3	5-WAR-001-004-03	Water	01/24/20 00:00	01/25/20 08:00	

1505

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information			Section B Client Information			COC #:		
Lab Name: TestAmerica			Company: Parsons/Ramboll			5-WAR-001-001		
Attention: Brian Fischer			Attention: Scott Tucker			Project Name: ILI - Region 5		
Address: 10 Hazelwood Drive Amherst, NY 14228-2298			Address: 333 West Washington Street, PO Box 4873 Syracuse, NY 13221			Project Site: Queenbury LF		
Phone: (716) 504-9835			Phone: 315-956-6345			Project Number: 450619		
Email: Brian.Fischer@testamericainc.com			Email: Scott.Tucker@Ramboll.com					
Section C Deliverable Requirements								
Report To: Scott.Tucker@Ramboll.com			Purchase Order No:					
Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com			TAT - 10 Day					
Maryanne.Kosciewicz@parsons.com; Heather.Fettig@parsons.com			Section D Additional Information					
Deliverables: Level 2, CAT B Report, NYSDC EQUIS EDD								
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.
1 5-WAR-001-MW-05	90	110	5-WAR-001-001-01	1/21/20	1450	WG	N	16
2 5-WAR-001-FIELDQC	-	-	5-WAR-001-001-02	1/21/20	1655	WQ	FB	2
3 5-WAR-001-FIELDQC	-	-	5-WAR-001-001-03	1/21/20	1730	WQ	EB	2
4 5-WAR-001-FIELDQC	-	-	5-WAR-001-001-04	1/21/20	-	WQ	TB	1
5								
6								
7								
8								
9								
10								



480-165462 Chain of Custody

Special Instructions:	
Company: Ramboll Relinquished By: [Signature] Accepted By: [Signature] Company: [Signature] Date/Time: 1/23/20 0800 Date/Time: 1/23/20 1700 Date/Time: 1/23/20 0800 Date/Time: 1/23/20 1700	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4)

Received by Karl Fischer 1-22-20 0830
Relinquished by Karl Fischer 1-22-20 1700

Carroll 1/23/20 0800

#1 216

Revised

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information

Lab Name: TestAmerica

Attention: Brian Fischer

Address: 10 Hazelwood Drive
Amherst, NY 14228-2298

Phone: (716) 504-9835

Email: Brian.Fischer@testamericainc.com

Section C Deliverable Requirements

Report To: Scott.Tucker@Ramboll.com

Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com
Maryanne.Kosciewicz@parsons.com; Heather.Fettig@parsons.com

Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD

Section B Client Information

Company: Parsons/Ramboll

Attention: Scott Tucker

Address: 333 West Washington Street, PO Box 4873
Syracuse, NY 13221

Phone: 315-956-6345

Email: Scott.Tucker@Ramboll.com

Purchase Order No:

TAT - 10 Day

Section D Additional Information

COC #:

Project Name:

Project Site:

Project Number:

Preservative codes (for water only):

0 1 0 0 2 2 3 1 0 0 0

Alkalinity SM20 2320B

TDS SM2540D

SO4/CHL/BRO 300.0

TOC 9060A

Ammonia/COD 350.1/410.4

Hard-SM20 2340C

Mod Bsl Met/Hg 6010/7470

1, 4 - Dioxane 82705IM

PAHs 82705IM

Modified Baseline VOCs 8260

PFAS Modified 537

Composite (Y/N)

MS/MSD

#Bottles

of Cont.

Sample Date

Sample Time

Sample Matrix

Sample Type

Field Sample ID

MUST BE UNIQUE

Start Depth (ft)

End Depth (ft)

Location

MW-5

1 5-WAR-001-MW-05

2 5-WAR-001-FIELDQC

3 5-WAR-001-FIELDQC

4 5-WAR-001-FIELDQC

5

6

7

8

9

10

Special Instructions:

Sample Name:

Shipment Method:

Shipment Tracking No:

Date/Time:

Company:

Date/Time:

Relinquished By:

Accepted By:

Date/Time:

Company:

Date/Time:

Cooler Temp:

Rec'd on Ice:

Cooler Temp:

Rec'd on Ice:

Custody Seals Intact:

Samples Intact:

Custody Seals Intact:

Samples Intact:

*Drop box

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information		Section B Client Information		COC #: 5-WAR-001-003				
Lab Name: TestAmerica		Company: Parsons/Ramboll		Project Name: ILI - Region 5				
Attention: Brian Fischer		Attention: Scott Tucker		Project Site: Queensbury Landfill				
Address: 10 Hazelwood Drive Amherst, NY 14228-2298		Address: 333 West Washington Street, PO Box 4873 Syracuse, NY 13221		Project Number: 450619				
Phone: (716) 504-9835		Phone: 315-956-6345						
Email: Brian.Fischer@testamericainc.com		Email: Scott.Tucker@Ramboll.com						
Section C Deliverable Requirements		Purchase Order No:						
Report To: Scott.Tucker@Ramboll.com		TAT - 10 Day						
Copy To: Lorraine.Weber@parsons.com; Laura.Drachtenberg@parsons.com Maryanne.Kosciewicz@parsons.com; Heather.Fettig@parsons.com		Section D Additional Information						
Deliverables: Level 2, CAT B Report, NYSDCE EQUIS EDD								
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.
15-WAR-001-FIELDQC	-	-	5-WAR-001-003-01	11/23/20	0940	WQ	FB	2
25-WAR-001-FIELDQC	-	-	5-WAR-001-003-02	11/23/20	0945	WQ	FB	2
35-WAR-001-FIELDQC	-	-	5-WAR-001-003-03	11/23/20	0950	WQ	EB	2
45-WAR-001-MW-2	-	-	5-WAR-001-003-04	11/23/20	1200	WG	N	16
55-WAR-001-MW-2	-	-	5-WAR-001-003-05	11/23/20	-	WG	FD	16
65-WAR-001-MW-3	-	-	5-WAR-001-003-06	11/23/20	1630	WG	N	16
75-WAR-001-FIELDQC	-	-	5-WAR-001-003-07	11/23/20	-	WQ	FB	2
8								
9								
10								



480-165581 Chain of Custody

Special Instructions:

Relinquished by: Ramboll Date/Time: 11/23/20, 18:35 Accepted By: TA Drachtenberg Date/Time: 11/23/20, 18:35

Company: Ramboll Date/Time: 11/23/20, 18:35 Company: Test America Date/Time: 11/23/20, 18:35

Shipment Tracking No: TA Drachtenberg Date/Time: 11/23/20, 18:35

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; [8 = Other (H3PO4)];

Received by Karl Lashin 0830 1/24/20
Relinquished by Karl Lashin 1700 1/24/20

Revised

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information

Lab Name: TestAmerica
 Attention: Brian Fischer
 Address: 10 Hazelwood Drive
 Amherst, NY 14228-2798
 Phone: (716) 504-9835
 Email: Brian.Fischer@testamericainc.com

Section C Deliverable Requirements

Report To: Scott.Tucker@Ramboll.com
 Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com
 Maryanne.Kosciewicz@parsons.com; Heather.Fettig@parsons.com
 Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD

Section B Client Information

Company: Parsons/Ramboll
 Attention: Scott Tucker
 Address: 333 West Washington Street, PO Box 4873
 Syracuse, NY 13221
 Phone: 315-956-6345
 Email: Scott.Tucker@Ramboll.com
 Purchase Order No:

TAT - 10 Day

Section D Additional Information

Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.
15-WAR-001-FIELDQC	-	-	5-WAR-001-003-01	11/23/20	0940	WQ	FB	2
25-WAR-001-FIELDQC	-	-	5-WAR-001-003-02	11/23/20	0945	WQ	FB	2
35-WAR-001-FIELDQC	-	-	5-WAR-001-003-03	11/23/20	0950	WQ	FB	2
45-WAR-001-MW-2	120.25	120.25	5-WAR-001-003-04	11/23/20	1000	WQ	N	16
55-WAR-001-MW-2	120.25	120.25	5-WAR-001-003-05	11/23/20	1200	WQ	FD	16
65-WAR-001-MW-3	152.25	152.25	5-WAR-001-003-06	11/23/20	1630	WQ	N	16
75-WAR-001-FIELDQC	-	-	5-WAR-001-003-07	11/23/20	-	WQ	FB	2

Special Instructions:

Alayna Fries

Company: Ramboll
 Date Time: 11/23/20, 18:35
 Signature: [Signature]
 Accepted By: [Signature]

Company: Ramboll
 Date Time: 11/23/20, 18:35
 Signature: [Signature]
 Accepted By: [Signature]

Preservatives: 0 = None [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = H2O2]; [7 = NaOH]; [8 = Other (N3P04)];

Preservative codes (for water only):

0	1	2	3	4	5	6	7	8	9

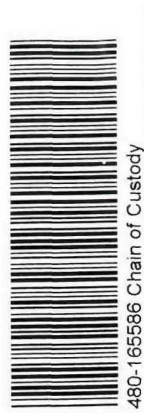
Abundant SPDS 23358
 TDS SHS480
 SO4/CL/BRD 300.0
 TOC 9085A
 Anion/COD 350 L41B4
 Hard-SPDS 2340C
 Mod Bst Met/ly 6810/7429
 L # - Decane 827952A
 HPLC 827052A
 Modified Baseline VDCs 8260
 PWS Modified 537
 Composite (Y/N)
 MS/MSD
 Z/Notes

Coldbox Seal Intact: Yes ☐ No ☐
 Sample Seal Intact: Yes ☐ No ☐
 Custody Seal Intact: Yes ☐ No ☐
 Sample Seal Intact: Yes ☐ No ☐

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information		Section B Client Information		COC #:
Lab Name:	TestAmerica	Company:	Parsons/Ramboll	5-WAR-001-004
Attention:	Brian Fischer	Attention:	Scott Tucker	Project Name:
Address:	10 Hazelwood Drive Amherst, NY 14228-2298	Address:	333 West Washington Street, PO Box 4873 Syracuse, NY 13221	ILI - Region 5
Phone:	(716) 504-9835	Phone:	315-956-6345	Project Site:
Email:	Brian.Fischer@testamericainc.com	Email:	Scott.Tucker@Ramboll.com	Openbury LF
Section C Deliverable Requirements		Purchase Order No:		Project Number:
Report To:	Scott.Tucker@Ramboll.com	TAT - 10 Day		450619
Copy To:	Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com Maryanne.Kosciewicz@parsons.com; Heather.Fettig@parsons.com	Section D Additional Information		
Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD				

Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.
1 5-WAR-001-MW-4	3	21	5-WAR-001-004-01	1/24/20	1105	WG	W	16
2 5-WAR-001-FIELDQC	-	-	5-WAR-001-004-02	1/24/20	1140	WQ	FB	2
3 5-WAR-001-FIELDQC	-	-	5-WAR-001-004-03	1/24/20	-	WQ	TB	2
4								
5								
6								
7								
8								
9								
10								



480-165586 Chain of Custody

Special Instructions:

Samples Name: Maria Bianchini; Alanya Fries Shipment Method: DROP off @ service center Relinquished By: Tim Krollinger 1-24-2020 1700		Company: Ramboll Date/Time: 1/24/20 1315 Relinquished By: Maria Bianchini		Company: Parsons/Ramboll Date/Time: 1/24/20 1315 Relinquished By: Maria Bianchini	
Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; [8 = Other (H3PO4)]		Cooler Temp.: Rec'd on Ice: Yes ☐ No ☐		Custody Seals Intact: Yes ☐ No ☐	
Samples Intact: Yes ☐ No ☐		Samples Intact: Yes ☐ No ☐		Samples Intact: Yes ☐ No ☐	

Relinquished By: Tim Krollinger 1-24-2020 1700
 Albany #224
 Cavalliere 1/25/20 0800
 #224

Chain of Custody Record

[illegible]

ORIGIN ID:DKKA (716) 691-2600
CHRIS KOLB
TESTAMERICA
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

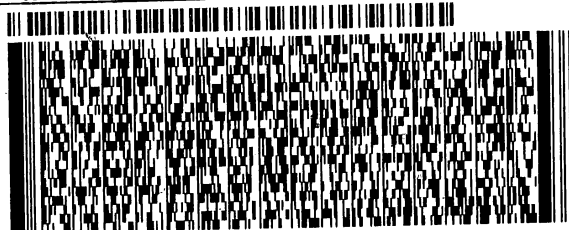
SHIP DATE: 23JAN20
ACTWGT: 15.95 LB
CAD: 846654/CAFE3312
DIMS: 19x15x10 IN

BILL RECIPIENT

TO **SAMPLE MGT.**
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

REF: TA BURLINGTON



FedEx
Express

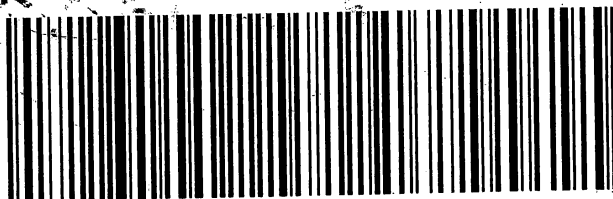


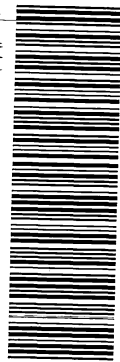
TRK# 4276 0722 4365
0201

FRI - 24 JAN 10:30A
PRIORITY OVERNIGHT

XH BTVA

05403
VT-US BTV



[illegible]

OKKA (716) 691-2600

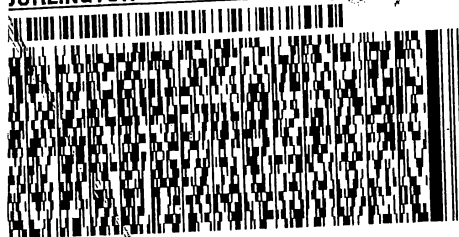
DD DR

Y 14228
TES US

SHIP DATE: 28JAN20
ACTWGT: 27.40 LB
CAD: 846654/CAFE3312
DIMS: 22x14x11 IN

BILL RECIPIENT

LE MGT.
IRLINGTON
MMUNITY DRIVE
11
H BURLINGTON VT 05403
990
BURLINGTON



FedEx
Express



76 0722 4722

WED - 29 JAN 10:30A
PRIORITY OVERNIGHT

BTVA

05403
VT-US BTVA



Eurofins TestAmerica, Buffalo

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

Chain of Custody Record



Environment Testing
TestAmerica



Client Information (Sub Contract Lab) Company: TestAmerica Laboratories, Inc. Address: 30 Community Drive, Suite 11, City: South Burlington State, Zip: VT, 05403 Phone: 802-660-1990(Tel) 802-660-1919(Fax) Email: Project Name: Queensbury LF, Region 5 Site:		Sampler: Lab PM: Schove, John R Phone: E-Mail: John.schove@testamericainc.com Accreditations Required (See note): NELAP - New York	COC No: 480-54124.1 Page: Page 1 of 1 Job #: 480-165462-1
Due Date Requested: 2/6/2020 TAT Requested (days): PO #: WO #: Project #: 48021553 SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Sample Identification - Client ID (Lab ID) Sample Date Sample Time Sample Matrix (W=water, S=solid, O=oil, A=air) (C=Comp, G=grab) Preservation Code:		Special Instructions/Note:	
5-WAR-001-004-01 (480-165586-1) 5-WAR-001-004-02 (480-165586-2)		Total Number of Containers: 2	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.		Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	
Empty Kit Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Relinquished by: <i>John Schove</i> Date/Time: 01/28/20 17:00 Relinquished by: Date/Time: TA Company Relinquished by: Date/Time: Company Relinquished by: Date/Time: Company		Method of Shipment:	
Custody Seals Intact: <i>NA</i> Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.1	

Ver: 01/16/2019

OKKA (716) 691-2600

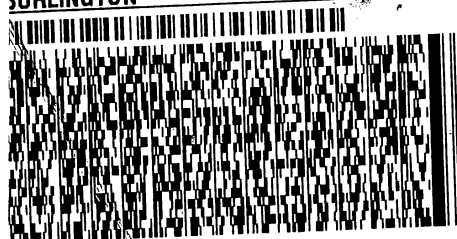
OD DR

Y 14228
TES US

SHIP DATE: 28JAN20
ACTWGT: 27.40 LB
CAD: 846654/CAFE3312
DIMS: 22x14x11 IN

BILL RECIPIENT

LE MGT.
IRLINGTON
MMUNITY DRIVE
11
H BURLINGTON VT 05403
990
BURLINGTON



FedEx
Express



76 0722 4722

WED - 29 JAN 10:30A
PRIORITY OVERNIGHT

BTVA

05403
VT-US BTV



Login Sample Receipt Checklist

Client: O'Brien & Gere Engineers, Inc.

Job Number: 480-165462-1

SDG Number: 480-165462-1

Login Number: 165462

List Number: 1

Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, 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.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: O'Brien & Gere Engineers, Inc.

Job Number: 480-165462-1

SDG Number: 480-165462-1

Login Number: 165462

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 01/24/20 12:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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	992710
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	2.3°C
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: O'Brien & Gere Engineers, Inc.

Job Number: 480-165462-1

SDG Number: 480-165462-1

Login Number: 165515

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

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.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: O'Brien & Gere Engineers, Inc.

Job Number: 480-165462-1

SDG Number: 480-165462-1

Login Number: 165515

List Number: 2

Creator: Hall, Samuel C

List Source: Eurofins TestAmerica, Burlington

List Creation: 01/25/20 10:25 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	992719
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	1.0°C
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: O'Brien & Gere Engineers, Inc.

Job Number: 480-165462-1

SDG Number: 480-165462-1

Login Number: 165581

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

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.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: O'Brien & Gere Engineers, Inc.

Job Number: 480-165462-1

SDG Number: 480-165462-1

Login Number: 165581

List Number: 2

Creator: Hall, Samuel C

List Source: Eurofins TestAmerica, Burlington

List Creation: 01/29/20 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	1.1°C
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: O'Brien & Gere Engineers, Inc.

Job Number: 480-165462-1

SDG Number: 480-165462-1

Login Number: 165586

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

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.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: O'Brien & Gere Engineers, Inc.

Job Number: 480-165462-1

SDG Number: 480-165462-1

Login Number: 165586

List Number: 2

Creator: Hall, Samuel C

List Source: Eurofins TestAmerica, Burlington

List Creation: 01/29/20 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	1.1°C
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	