FIELD ACTIVITIES SUMMARY REPORT

LYNDON ROAD LF
REGION 8

INACTIVE LANDFILL INITIATIVE
WORK ASSIGNMENTS # D007623-33 / D009811-02

Prepared For:

New York State Department of Environmental Conservation
Division of Materials Management
625 Broadway
Albany, NY 12233-7012

Prepared By:

301 Plainfield Road, Suite 350
Syracuse, New York 13212

NOVEMBER 2020

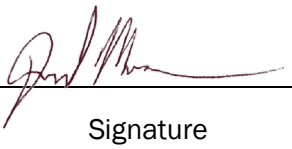
CERTIFICATION

Lyndon Road Landfill, Perinton, NY

I, George Moreau, certify that all activities detailed in this Field Activity Summary Report were conducted as described and in full accordance with the approved work plan and any NYSDEC approved modifications, unless otherwise noted herein.

George Moreau	10/27/2020	
Regional Coordinator	Date	Signature

Reviewed/Accepted By:

Daniel Maeso	10/27/2020	
NYSDEC Division of Materials Management	Date	Signature

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

Landfill Name: Lyndon Road LF

Region: 8

Database ID: 8125

Date of Field Activities: 05/11-14/2020, 05/20/2020, and 08/18-20/2020

Summary of Field Activities

Four monitoring wells were installed, developed, and sampled at the Lyndon Road LF to assess impacts to drinking water sources and nearby receptors. Figure 1 shows the well locations and Figure 2 shows surface topography, groundwater flow direction, and provides a summary of the analytical results. The borings used to install the wells identified fill material to depths below ground surface from 7.5 to 27 feet. MW-01 and MW-02 found mainly clay below the waste material with intermittent sand lenses and MW-03 and MW-04 found mainly sand below the waste with a few thin layers of clay and/or silt. Field activities were performed according to the site-specific work plan and program Field Activities Plan with no deviations.

Monitoring Wells Installed

Monitoring Well ID	Northing	Easting	Top of PVC Casing Elevation (Feet AMSL)	Well Development Date	Comments
MW-01	1128894.558	1464590.011	478.089	05/20/2020	-
MW-02	1128572.815	1464734.264	467.804	05/20/2020	-
MW-03	1128366.612	1464536.368	487.866	05/20/2020	-
MW-04	1128192.881	1464261.387	478.372	05/20/2020	-

Monitoring Wells Sampled

Monitoring Well ID	Date	Sample Collected (yes/no)	Comments
MW-01	08/19/2020	Yes	Sampled with peristaltic pump at 250 mL/min. Parameters stabilized during purge of 4 gallons.
MW-02	08/18/2020	Yes	Sampled with peristaltic pump at 250 mL/min. Parameters stabilized during purge of 5 gallons.

MW-03	08/20/2020	Yes	Sampled with peristaltic pump at 300 mL/min. Parameters stabilized during purge of 2.5 gallons.
MW-04	08/19/2020	Yes	Sampled with peristaltic pump at 200 mL/min. Parameters stabilized during purge of 5 gallons.

Other Samples

Sample Location	Sample Type	Date	Comments
N/A	Field blank	08/18/2020	Field QC sample
N/A	Equipment blank	08/18/2020	Field QC sample
N/A	Trip blank	08/18/2020	Field QC sample
N/A	Field blank	08/19/2020	Field QC sample
N/A	Equipment blank	08/19/2020	Field QC sample
N/A	Trip blank	08/19/2020	Field QC sample
MW-01	Field duplicate	08/19/2020	Field duplicate sample
N/A	Field blank	08/20/2020	Field QC sample
N/A	Equipment blank	08/20/2020	Field QC sample
N/A	Trip blank	08/20/2020	Field QC sample

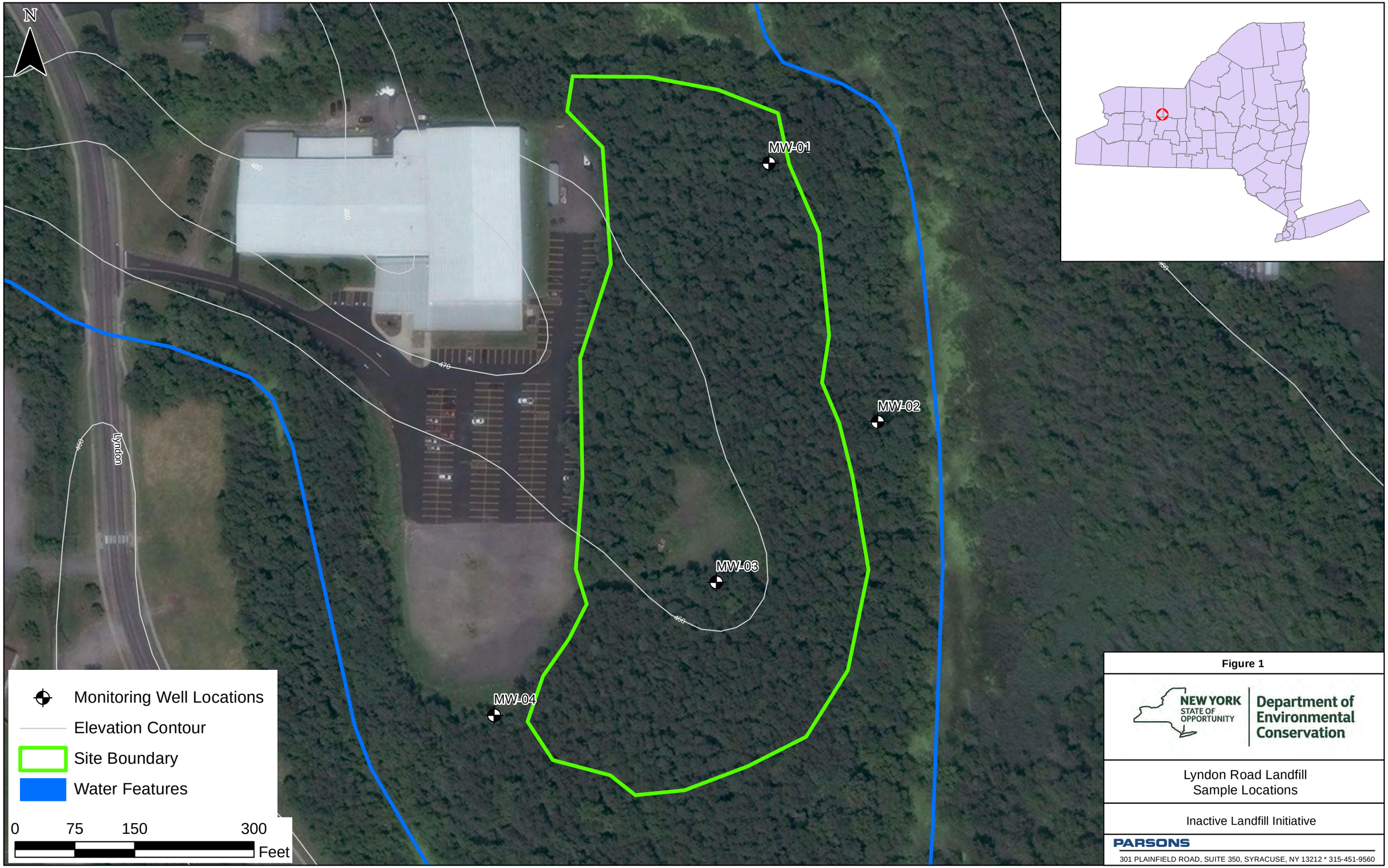
Figures

Figure 1	Sample Locations
Figure 2	Groundwater Flow Direction and Summary of Analytical Results

Attachments

Attachment 1	Site-Specific Work Plan
Attachment 2	Boring and Well Construction Logs
Attachment 3	Groundwater Sample Logs
Attachment 4	Analytical Laboratory Level II Data Deliverable

Figures



Plotted By: CS

Plot Date: 10/26/2020

Figure 1

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Lyndon Road Landfill
Sample Locations

Inactive Landfill Initiative

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

Document Path: P:\NYSDEC Program\450619 - WA #33 - Inactive Landfill Initiative\10.0 Technical Categories\10.11 GIS Files\FASR Figures\Region 8\Lyndon Rd LF\Figure 1.mxd

N

458.83 ft amsl MW-01

458.65 ft amsl MW-02

MW-03 458.73 ft amsl

457.59 ft amsl MW-04

Chemical Name	Unit	NYSDWQC Recommended MCL	MW-01
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	290
Perfluorooctanoic acid (PFOA)	ng/l	10	4800
1,4-Dioxane (P-Dioxane)	ug/l	1	2.2

Chemical Name	Unit	NYSDWQC Recommended MCL	MW-02
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	62
Perfluorooctanoic acid (PFOA)	ng/l	10	8100
1,4-Dioxane (P-Dioxane)	ug/l	1	43

Chemical Name	Unit	NYSDWQC Recommended MCL	MW-03
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	170
Perfluorooctanoic acid (PFOA)	ng/l	10	1500
1,4-Dioxane (P-Dioxane)	ug/l	1	14

Chemical Name	Unit	NYSDWQC Recommended MCL	MW-04
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	200
Perfluorooctanoic acid (PFOA)	ng/l	10	740
1,4-Dioxane (P-Dioxane)	ug/l	1	2.0

Monitoring Well Locations
Groundwater Flow Direction
Elevation Contour
Site Boundary
Water Features

0 75 150 300 Feet

Groundwater elevation data collected between August 18 and 20, 2020

Plotted By: CS

Plot Date: 10/26/2020

Figure 2

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Lyndon Road Landfill
Groundwater Flow Direction and
Emergent Contaminant Results

Inactive Landfill Initiative

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

Document Path: P:\NYSDEC Program\450619 - WA #33 - Inactive Landfill Initiative\10.0 Technical Categories\10.11 GIS Files\FASR Figures\Region 8\Lyndon Rd LF\Figure 2.mxd

Attachments

ATTACHMENT 1

WORK PLAN

FINAL Site-Specific Work Plan for:

HYDROGEOLOGIC INVESTIGATION
AT THE
LYNDON ROAD LANDFILL
NYSDEC REGION 8 - MONROE COUNTY
PERINTON, NEW YORK

Prepared For:

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

Prepared By:

PARSONS

301 Plainfield Rd, Suite 350
Syracuse, New York 13212
Phone: (315) 451-9560
Fax: (315) 451-9570

APRIL 2019

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

Site-Specific Work Plan For Hydrogeologic Investigation At the Lyndon Road Landfill

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 to groundwater in the immediate vicinity of the Lyndon Road Landfill. This objective will be accomplished by installing four groundwater monitoring wells, sampling groundwater from the wells and analyzing the samples for a suite of potential organic and inorganic contaminants. The groundwater sample data will be evaluated to assess whether groundwater quality has been impacted by the landfill.

3.0 SITE SETTING

The landfill is in a wooded area with a small stream (Thomas Creek) on three sides of the landfill. The Thomas Creek Ice Arena and parking lot is in the middle of the landfill. The Little League Sanitary Landfill is located across the street to the west, and the Granger landfill is located to the south. A railroad and the Erie Canal are located south of Granger Landfill. The area is served by public water. The size of the landfill is approximately 700 feet by 1,000 feet.

According to the DEC website, there are no public drinking water wells within a mile of the site. The site is not on a sole source aquifer, but it is on the Irondogenesee primary aquifer.

There is a combination of municipal and industrial waste at the site. The waste is within a wooded area adjacent to Thomas Creek. Metal, C&D waste, tires, appliances, one 275-gallon empty above ground storage tank (AST), and plastics were observed in various locations around the landfill. There is apparently recent C&D waste disposed in one location.

There were no leachate seeps observed during the site reconnaissance. The depth of the waste is unknown. However, due to the proximity of Thomas Creek, the waste may extend below the groundwater table.

3.1 GROUNDWATER OCCURRENCE AND FLOW

Thomas Creek wraps around the north, south, and east sides of the landfill. The Erie Canal is located approximately 800 feet to the south. The landfill is densely wooded with a slope to Thomas Creek on three sides of the landfill. Brush and small trees would need to be cleared for drilling rig access. Groundwater is expected to be at a similar elevation to the creek, which may only be a few feet below grade near Thomas Creek. Groundwater is expected to flow toward the creek.

4.0 HYDROGEOLOGICAL INVESTIGATION SCOPE OF WORK

Field activities will be conducted in accordance with the programmatic 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. Site-specific elements and specific job safety analyses for soil borings, and monitoring well installations will be added to the Health and Safety Plan specifically for the Lyndon Road Landfill.

A Community Air Monitoring Plan will be implemented for real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area during invasive activities on-site.

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

4.1 SUBSURFACE UTILITY CLEARING

The local DIG SAFE service will be used to mark out subsurface utility lines near the proposed monitoring well locations. Monitoring well boring locations will be adjusted in the field as necessary to avoid subsurface obstructions and utilities. Each well boring location will also be hand-dug to 5 feet to ensure the location is clear of subsurface utilities. The proposed well locations are shown on Figure 3.

4.2 MONITORING WELL INSTALLATIONS

Following hand clearing the location to 5 feet below ground surface, four well borings will be drilled into the overburden using hollow-stem augers or another acceptable technique based on the conditions present. Alternate drilling techniques are described in the programmatic FAP. Split-spoon soil samples will be collected continuously at each boring location. The borings will be advanced to the first water-bearing zone that is considered acceptable for placing a monitoring well that will yield a sufficient volume of groundwater for sampling.

The site is estimated to have a relatively high water table with waste potentially within groundwater, therefore the groundwater table may be as shallow as 10-20 feet below ground surface. The well borings will be drilled deep enough to allow a 10-foot well screen to be placed allowing for fluctuations in the water table to remain within the screened zone. This will be considered the “target depth”.

Once the target depth and conditions are reached, monitoring wells will be constructed with 2-inch inside diameter polyvinyl chloride (PVC) casing with a 10-foot long, #10-slot PVC screen with the screen extending at least 2 ft. above the water table interface, if conditions allow. Each well will be completed with a protective casing. Should site conditions dictate modifications to the well design, these will be made in the field by the supervising geologist.

Following installation, the new and existing monitoring wells will be developed to remove material which may have settled in and around the well screen. Development will use methods described in the FAP. Following well development, the locations and elevations of the monitoring well PVC casings will be established relative to an arbitrary onsite datum using a Total Station instrument.

All drilling equipment will be decontaminated by pressure washing between borings and before entering or leaving the site.

Drill cuttings and other soils generated on-site may be disposed of within the borehole from which they were generated or spread along the ground adjacent to the borehole if the borehole is designated for well installation. These soils that contain wastes, free product, NAPL, or otherwise grossly contaminated will not be used as backfill and will be containerized for subsequent characterization and disposal. Water generated during an investigation may be discharged to an unpaved area of the site.

4.3 GROUNDWATER SAMPLING

Once well installation and development are complete, a groundwater sample will be retrieved from each well. Groundwater samples will be collected and analyzed as described in the FAP and QAPP. Bailers or low-flow pumps may be used. 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.

The groundwater 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 and the sampling summary is provided in Table 2.

5.0 HYDROGEOLOGICAL INVESTIGATION REPORT

The hydrogeological report will summarize the program and site-specific objectives, the field and analytical methods used, the site geology and hydrogeology including groundwater occurrence and flow directions, and the results of the leachate and groundwater sampling.

TABLE 1 – ANALYTICAL PARAMETERS

Parameter	Method	Parameter	Method
Leachate Indicators (water samples only)		**PAHs + 1,4-Dioxane**	
Ammonia	350.1 / SM20 4500NH3 B/D	Acenaphthene	8270D SIM
Chemical Oxygen Demand	410.4	Acenaphthylene	8270D SIM
Total Organic Carbon	EPA 9060 / SM20 5310B/C	Anthracene	8270D SIM
Total Dissolved Solids	SM20 2540C	Benzo(a)anthracene	8270D SIM
Sulfate	300	Benzo(a)pyrene	8270D SIM
Alkalinity	SM20 2320B	Benzo(b)fluoranthene	8270D SIM
Chloride	300	Benzo(g,h,i)perylene	8270D SIM
Bromide	300	Benzo(k)fluoranthene	8270D SIM
Total hardness as CaCO3	SM20 2340C	Chrysene	8270D SIM
		Dibenzo(a,h)anthracene	8270D SIM
Inorganics		Fluoranthene	8270D SIM
Arsenic	SW6010C	Fluorene	8270D SIM
Barium	SW6010C	Indeno(1,2,3-cd)pyrene	8270D SIM
Beryllium	SW6010C	Naphthalene	8270D SIM
Boron	SW6010C	Phenanthrene	8270D SIM
Chromium	SW6010C	Pyrene	8270D SIM
Copper	SW6010C	1-4-Dioxane	8270D SIM
Iron	SW6010C		
Lead	SW6010C	**Perfluorinated Compounds**	
Manganese	SW6010C	N-ethyl perfluorooctanesulfonamidoacetic acid	Modified 537
Nickel	SW6010C	N-methyl perfluorooctanesulfonamidoacetic acid	Modified 537
Selenium	SW6010C	Perfluorobutanesulfonic acid (PFBS)	Modified 537
Thallium	SW6010C	Perfluorodecanoic acid (PFDA)	Modified 537
Zinc	SW6010C	Perfluorododecanoic acid (PFDoA)	Modified 537
Mercury	SW7470A (water) SW7471B (soil)	Perfluoroheptanoic acid (PFHpA)	Modified 537
		Perfluorohexanesulfonic acid (PFHxS)	Modified 537
		Perfluorohexanoic acid (PFHxA)	Modified 537
		Perfluorononanoic acid (PFNA)	Modified 537
		Perfluorooctanesulfonic acid (PFOS)	Modified 537
		Perfluorooctanoic acid (PFOA)	Modified 537
		Perfluorotetradecanoic acid (PFTA)	Modified 537
		Perfluorotridecanoic acid (PFTriA)	Modified 537
		Perfluoroundecanoic acid (PFUA)	Modified 537
		Perfluoroheptanesulfonic acid (PFHpS)	Modified 537
		Perfluorodecanesulfonic acid (PFDS)	Modified 537

TABLE 1

ANALYTICAL PARAMETERS
(Continued)

Parameter	Method	Parameter	Method
Perfluorinated Compounds (cont'd)			
Perfluorobutanoic acid (PFBA)	Modified 537	Perfluoroctanesulfonamide (PFOSA)	Modified 537
Perfluoropentanoic acid (PFPeA)	Modified 537	6:2 Fluorotelomer sulfonate (6:2 FTS)	Modified 537
		8:2 Fluorotelomer sulfonate (8:2 FTS)	Modified 537
Volatile Organic Compounds			
Acetone	SW8260C	Ethylbenzene	SW8260C
Acrylonitrile	SW8260C	2-Hexanone	SW8260C
Benzene	SW8260C	Bromomethane	SW8260C
Bromochloromethane	SW8260C	Chloromethane (Methyl chloride)	SW8260C
Bromodichloromethane	SW8260C	Dibromomethane	SW8260C
Bromoform	SW8260C	Methylene chloride	SW8260C
Carbon disulfide	SW8260C	2-Butanone (Methyl ethyl ketone)	SW8260C
Carbon tetrachloride	SW8260C	Idomethane (Methyl iodide)	SW8260C
Chlorobenzene	SW8260C	4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260C
Chloroethane	SW8260C	Styrene	SW8260C
Chloroform	SW8260C	1,1,1,2-Tetrachloroethane	SW8260C
Dibromochloromethane	SW8260C	1,1,2,2-Tetrachloroethane	SW8260C
1,2-Dibromo-3-chloropropane	SW8260C	Tetrachloroethene	SW8260C
1,2-Dibromoethane (Ethylene dibromide)	SW8260C	Toluene	SW8260C
1,2-Dichlorobenzene	SW8260C	1,1,1-Trichloroethane	SW8260C
1,4-Dichlorobenzene	SW8260C	1,1,2-Trichloroethane	SW8260C
trans-1,4-Dichloro-2-butene	SW8260C	Trichloroethene	SW8260C
1,1-Dichloroethane	SW8260C	Trichlorofluoromethane	SW8260C
1,2-Dichloroethane	SW8260C	1,2,3-Trichloropropane	SW8260C
1,1-Dichloroethene	SW8260C	Vinyl acetate	SW8260C
cis-1,2-Dichloroethene	SW8260C	Vinyl chloride	SW8260C
trans-1,2-Dichloroethene	SW8260C	o-Xylene	SW8260C
1,2-Dichloropropane	SW8260C	m,p-Xylene	SW8260C
cis-1,3-Dichlororpropene	SW8260C	Xylenes, Total	SW8260C
trans-1,3-Dichlororpropene	SW8260C		

TABLE 2 – ANALYTICAL SAMPLE SUMMARY

Samples	Matrix	Laboratory Analysis	No. of Samples	Trip Blank	Equipment/ Field Blank	Total
MW-1	Groundwater	See Table 1	1			1
MW-2	Groundwater	See Table 1	1			1
MW-3	Groundwater	See Table 1	1			1
MW-4	Groundwater	See Table 1	1			1
TB-1	Water	VOCs		1*		1
FB-1	Water	PFCs; See Table 1			1*	1
EB-1	Water	PFCs; See Table 1			1*	1

* Per day

N

Fairport

Estimated Site Limits

0 500 1,000 2,000 Feet

Figure 1

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

Lyndon Road Landfill
Site Location Map

Inactive Landfill Initiative

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

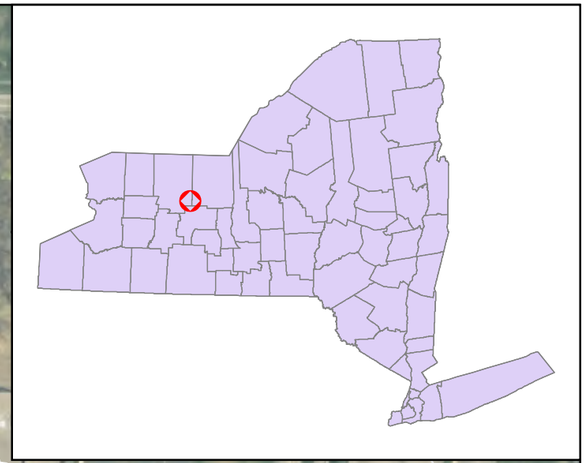
Plotted By: RR

Plot Date: 4/15/2019

Document Path: P:\PIT\Projects\NYSDEC Program\450619 - WA #33 - Inactive Landfill Initiative\10.0 Technical Categories\10.11 GIS Files\Work Plans\Region 8\Lyndon Road LF\Figure 1.mxd

N

500
490
480
470
460
490
480
470
460
480
460
470
460



Elevation Contours (feet)
Estimated Site Limits
Water Feature

0 150 300 600
Feet

Figure 2

NEW YORK STATE OF OPPORTUNITY
Department of Environmental Conservation

Lyndon Road Landfill
Site Setting

Inactive Landfill Initiative

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

Plotted By: RR
Plot Date: 4/15/2019

Document Path: P:\PIT\Projects\NYSDEC Program\450619 - WA #33 - Inactive Landfill Initiative\10.0 Technical Categories\10.11 GIS Files\Work Plans\Region 8\Lyndon Road LF\Figure 2.mxd

N

MW-01

MW-04

MW-02

MW-03

Lyndon Rd

Proposed Monitoring Well Location

Estimated Site Limits

Tax Parcel Boundaries

0 100 200 400

Feet

Plotted By: RR

Plot Date: 4/16/2019

Figure 3

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

Lyndon Road Landfill
Site Plan

Inactive Landfill Initiative

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

Document Path: P:\PIT\Projects\NYSDEC Program\450619 - WA #33 - Inactive Landfill Initiative\10.0 Technical Categories\10.11 GIS Files\Work Plans\Region 8\Lyndon Road LF\Figure 3.mxd

ATTACHMENT 2

SOIL BORING/ WELL INSTALLATION LOGS

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-01 Page 1 of 1

Contractor: NW Contracting
Driller: Brett Landsman
Oversight: Richard Inclima
Rig Type: Diedrich D-50

PROJECT NAME: Lyndon Rd LF
PROJECT Location: Perinton, NY

Location Description: 43.092195, -77.399138

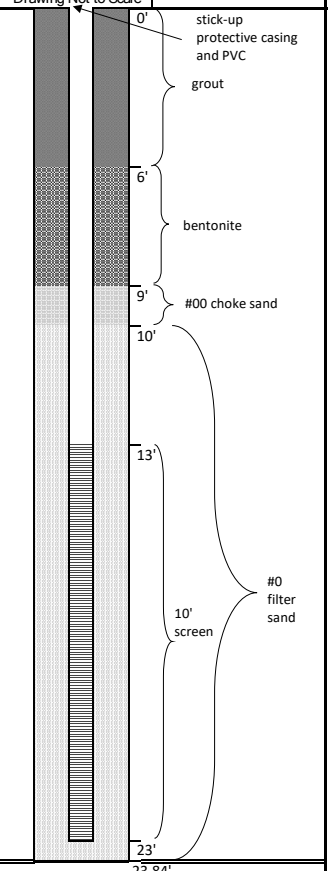
GROUNDWATER OBSERVATIONS

Apparent Borehole DTW:		17	ft bls
Measured Water Level:		15.61	ft bls
Total Depth of Well:		23.84	ft bls
Additional Comments:			

Date/Time Start: 5/14/20 -- 1057
Date/Time Finish: 5/14/20 -- 1500

Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					1	1-5': damp, soft, brown SILT, some waste (black rubber, clear and blue plastic wrapping, aluminum wrapping) and organic material (roots, grass, leaves, sticks), little subrounded c-sand, trace angular cobbles and c-gravel, no staining/odor.
HS	-	-	0.0	-	5	
					6	5-6': damp, loose, brown fine SAND and SILT mixture, some waste (plastic wrapping, brick chunks & dust, rubber, white ceramic pieces, concrete chunks, glass shards), little subangular c-gravel and organic material (roots, leaves, sticks), no staining/odor.
SS	3-5-2-4	50%	0.0	-	7	
					8	7-7.4': damp, soft, brown SILT, some f-sand and waste (woodchips, plastic wrappings, rubber), little peat, no staining/odor.
SS	2-5-4-2	20%	0.0	-	9	
					10	9-9.5': damp WOOD chunks. 9.5-9.9': dry, loose, light gray medium SAND and waste (concrete chunks), little angular c-gravel, no staining/odor.
SS	3-4-10-6	45%	0.0	-	11	
					12	11-11.5': damp, loose, brown fine SAND and SILT mixture, some waste (wood chunks, plastic wrapping), little clay, trace angular c-gravel, no staining/odor.
SS	3-2-2-2	25%	0.1	-	13	
					14	13-13.5': damp, loose, dark brown fine SAND and SILT mixture, some waste (woodchips, plastic wrapping, rubber, concrete), little m-c sand, trace subrounded c-gravel and peat, no staining/odor.
SS	4-6-4-12	25%	0.0	-	15	
					16	15-16': damp, medium stiff, black-brown SILT, some f-sand, little waste (woodchips, plastic wrapping), trace clay.
SS	6-3-2-5	60%	0.0	-	17	16-16.2': damp, medium dense, brown-gray fine SAND, some silt, little clay, trace angular-subangular m-c gravel, no staining/odor.
					18	17-17.4': saturated WASTE (woodchips), some silt and f-sand, smells like gasoline, water in SS has sheen.
SS	4-5-1-3	20%	9.8	-	19	
					20	19-20.5': wet, medium stiff, gray-brown CLAY, little silt and f-sand (intermittent sand lenses), smells like gasoline, water in SS has sheen.
SS	3-3-8-13	75%	3.9	-	21	
					22	21-22.2': damp, medium stiff, gray-brown CLAY, little silt, trace f-sand (intermittent sand lenses) water from above smells like gasoline with sheen.
SS	4-4-6-5	60%	3.4	-	23	

SCHEMATIC (Drawing Not to Scale)



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole) MC=Macro Core
SS= Split Spoon HS = Hollow Stem

COMMENTS:
Containerized soil cuttings from 17' to 23'; monitoring well constructed of 10' of 2" diameter, SCH 40, 0.010 slotted PVC screen, 16' of 2" diameter, SCH 40 PVC riser, 7 bags of #0 filter sand, 1 bag #00 choke sand, bentonite, Type I-Portland cement, 5' stick-up pro-casing.

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-02 Page 1 of 1

Contractor: NW Contracting
Driller: Brett Landsman
Oversight: Richard Inclima
Rig Type: Diedrich D-50

PROJECT NAME: Lyndon Rd LF
PROJECT Location: Perinton, NY

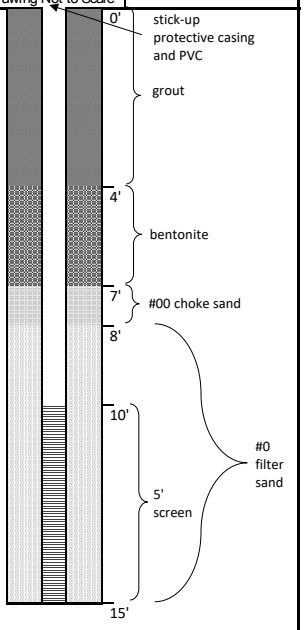
Location Description: 43.091258, -77.398617

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		11	ft bls
Measured Water Level:		6.6	ft bls
Total Depth of Well:		15	ft bls
Additional Comments:			

Date/Time Start: 5/13/20 -- 1050
Date/Time Finish: 5/13/20 -- 1433

Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					1	1-5': dry, loose WASTE (black rubber, industrial products, white plastic) and silt, little subangular m-c gravel and organic material (sticks, roots, leaves), no staining/odor.
					2	
					3	
					4	
HS	-	-	0.0	-	5	
					6	5-5.5': damp WASTE (brick/ceramic material, white plastic bits, woodchips) and silt, little angular m-c gravel and organic material (sticks, roots, leaves, no staining/odor.
SS	3-5-11-5	25%	0.1	-	7	
					8	7-7.5': damp, soft, brown SILT, some f-sand and waste (bricks, plastic), little clay and subrounded m-c gravel, no staining/odor.
SS	3-2-3-24	75%	0.0	-	9	7.5-8.5': damp, soft, brown-gray SILT and fine SAND, little organic material (roots, 1 mm gastropod shells), trace clay and angular c-gravel, decomposing plant smell.
					10	9-9.3': damp, soft, brown-black SILT, some clay, little black peat and angular c-gravel-to-cobble, no staining/odor.
SS	16-4-7-7	20%	0.0	ML	11	9.3-9.4': dry, loose, gray, angular coarse GRAVEL, no staining/odor.
					12	11-11.2': wet, soft, gray SILT and fine sand, some clay and angular c-gravel-to-cobble, no staining/odor.
SS	16-10-4-5	10%	0.0	ML	13	
					14	13-13.2': wet, soft, gray SILT and clay, some f-sand and m-gravel, no staining/odor.
SS	5-11-14-17	60%	0.0	GM	15	13.2-14.2': saturated, loose, gray fine GRAVEL and c-sand, some silt and clay and subrounded m-c gravel, little cobble, no staining/odor.

SCHEMATIC (Drawing Not to Scale)



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole) MC=Macro Core
SS= Split Spoon HS = Hollow Stem

COMMENTS:
Monitoring well constructed of 5' of 2" diameter, SCH 40, 0.010 slotted PVC screen, 13' of 2" diameter, SCH 40 PVC riser, 3 bags of #0 filter sand, .5 bag of #00 choke sand, bentonite, Type I-Portland cement, and 5' stick-up pro-casing.

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-03 Page 1 of 2

Contractor: NW Contracting
Driller: Brett Landsman
Oversight: Richard Inclima
Rig Type: Diedrich D-50

PROJECT NAME: Lyndon Rd LF
PROJECT Location: Perinton, NY

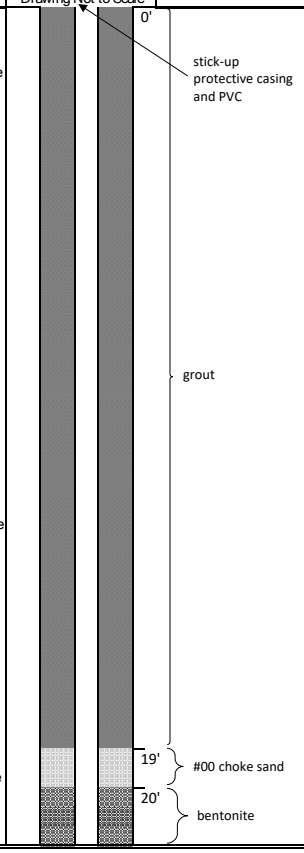
Location Description: 43.090749, -77.399447

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		27	ft bls
Measured Water Level:		27.4	ft bls
Total Depth of Well:		33.23	ft bls
Additional Comments:			

Date/Time Start: 5/12/20 -- 0940
Date/Time Finish: 5/13/20 -- 0945

Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					1	1-2': damp, soft, brown SILT, some f-sand and waste (plastic tube, metal sheeting, melted plastic bottles, other construction materials, asphalt chunks), trace subrounded f-m gravel and glass shards at the surface, no staining/odor.
						2-3': damp, soft, dark brown-black SILT, some f-sand, little subangular-subrounded f-m gravel, trace subrounded c-gravel, no staining/odor.
						3-5': damp, soft, brown-gray SILT, some subangular m-c gravel, little f-gravel and c-sand, no staining/odor.
HS	-	-	-	-	5	
					6	5-5.6': dry WASTE (aluminum, plastic, paper materials, brick/concrete chunks), little silt and pulverized rock/concrete dust, no staining/odor.
SS	7-5-15-9	30%	0.0	-	7	
					8	7-7.9': dry WASTE (concrete chunks, dust, pieces of rubber and tire, white plastic sheeting), little light brown silt, no staining, strong garbage odor.
SS	87-50/4	45%	0.0	-	9	
					10	9-9.5': dry WASTE (concrete chunks and dust, fine aluminum/plastic particulates, plastic wrapping, ceramic chunks), little silt, no staining, strong garbage odor.
SS	6-7-7-2	25%	0.0	-	11	
					12	dry WASTE (chunks of wood, ply wood, rubber, concrete chunks and dust), no staining, strong garbage odor (and creosote?).
SS	9-6-4-6	25%	520.0	-	13	
					14	13-13.5': dry WASTE (chunks of wood, rubber, plastic, concrete, mulch), no staining, strong garbage odor (and creosote?).
SS	8-6-44-6	25%	500.0	-	15	
					16	15-15.2': dry WASTE (chunks of wood, rubber, plastic, concrete), no staining, strong garbage odor (and creosote?).
SS	18-7-5-5	10%	618.0	-	17	
					18	17-18.3': moist WASTE (wood, some brick & rubber), little silt, no staining, strong garbage odor (and creosote?).
SS	9-10-7-5	65%	42.8	-	19	
			115.4		20	19-19.6': moist WASTE (wood, brick rubber), little silt, no staining, smells like creosote. 19.6-20': moist, medium dense, brown-gray fine SAND, some silt, little subrounded f-m gravel, trace subrounded c-gravel, smells like creosote.
SS	10-14-4-10	50%	9.0	-	21	

SCHEMATIC (Drawing Not to Scale)



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole) MC=Macro Core
SS= Split Spoon HS = Hollow Stem

COMMENTS:
Containerized soil cuttings from 11' to 31'; monitoring well constructed of 5' of 2" diameter, SCH 40, 0.010 slotted PVC screen, 29' of 2" diameter, SCH 40 PVC riser, 3 bags of #0 filter sand, 1 bag of #00 choke sand, bentonite, Type I-Portland cement, and 5' stick-up pro-casing.

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-03 Page 2 of 2

Contractor: NW Contracting
Driller: Brett Landsman
Oversight: Richard Inclima
Rig Type: Diedrich D-50

PROJECT NAME: Lyndon Rd LF
PROJECT Location: Perinton, NY

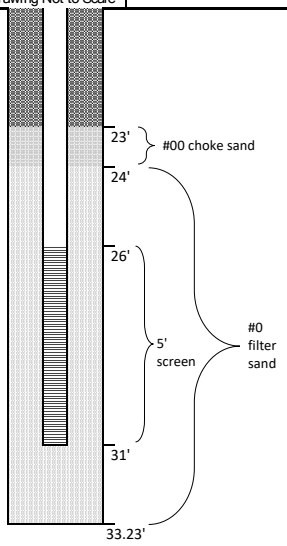
Location Description: 43.090749, -77.399447

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		27	ft bls
Measured Water Level:		27.4	ft bls
Total Depth of Well:		33.23	ft bls
Additional Comments:			

Date/Time Start: 5/12/20 -- 0940
Date/Time Finish: 5/13/20 -- 0945

Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					21	21-21.9': dry WASTE (wood, brick, rubber, plastic wrapping), trace cobble (siltstone), smells like creosote.
SS	12-10-3-1	45%	32.8	-	22	
					23	23-23.1': dry WASTE (wood, brick, rubber, plastic), smells like creosote.
					24	23.1-23.4': moist, medium dense, gray-brown fine SAND and black silt, some waste (wood, brick, rubber, plastic), trace subrounded c-gravel, smells like creosote.
SS	2-2-3-3	20%	22.7	-	25	moist chunk of WOOD and wire.
					26	
SS	3-1-1-3	1%	3.0	-	27	27-27.4': saturated, loose, gray-brown fine SAND, some silt and waste (wood), trace subrounded c-sand, no staining, slight garbage odor.
					28	
SS	1-1-2-4	20%	0.0	-	29	29-30.5': moist, medium dense, brown-gray fine SAND and silt, little embedded subrounded m-c sand, trace subangular c-gravel, no staining/odor.
					29	
SS	12-21-22-22	75%	0.0	SM	31	

SCHEMATIC (Drawing Not to Scale)



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole) MC=Macro Core
SS= Split Spoon HS = Hollow Stem

COMMENTS:
Containerized soil cuttings from 11' to 31'; monitoring well constructed of 5' of 2" diameter, SCH 40, 0.010 slotted PVC screen, 29' of 2" diameter, SCH 40 PVC riser, 3 bags of #0 filter sand, 1 bag of #00 choke sand, bentonite, Type I-Portland cement, and 5' stick-up pro-casing.

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-04 Page 1 of 2

Contractor: NW Contracting
Driller: Brett Landsman
Oversight: Richard Inclima
Rig Type: Diedrich D-50

PROJECT NAME: Lyndon Rd LF
PROJECT Location: Perinton, NY

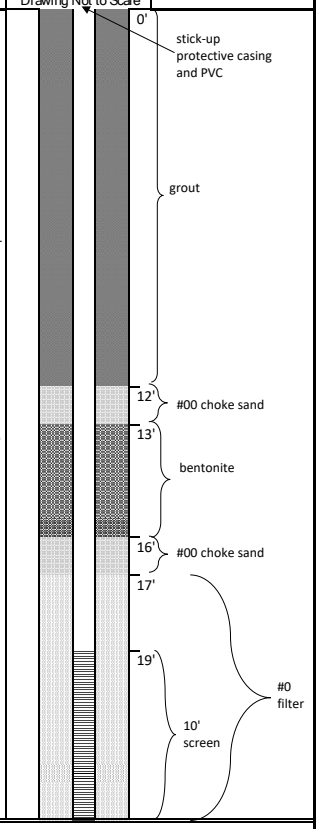
Location Description: 43.090246, -77.400525

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		21	ft bls
Measured Water Level:		21	ft bls
Total Depth of Well:		29	ft bls
Additional Comments:			

Date/Time Start: 5/11/20 -- 0915
Date/Time Finish: 5/11/20 -- 1430

Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					1	1-5': damp, soft, dark brown SILT and fine SAND, some subangular c-gravel, little c-sand and organic material (grass, roots), trace subrounded cobble, no staining/odor.
HS	-	-	0.0	-	5	
					6	5-5.7': damp, soft, dark brown SILT and fine SAND, little angular c-gravel, some waste (plastic, paper, brick), trace angular cobble, peat, and organic material (moss), no staining/odor.
SS	2-1-1-1	35%	0.0	-	7	
					8	7-7.4': damp, soft, dark brown SILT and fine SAND, some waste (white plastic, poly liner), garbage odor, no staining.
SS	3-5-6-5	60%	0.0	-	9	7.4-8.2': damp, soft, brown SILT and fine SAND, some waste (woodchips, brick, plastic) and angular c-gravel, little c-sand, trace cobble, no staining, garbage odor.
					10	9-10': damp, soft, black SILT, some f-sand, little clay and waste (plastic, poly liner, charcoal, brick), trace subrounded c-sand and angular m-c gravel, black staining, garbage odor.
SS	8-3-3-3	50%	0.0	-	11	
					12	11-11.2': damp WASTE (white plastic, poly liner). 11.2-11.5': wet, soft, brown-black SILT, some clay, little subrounded m-gravel and waster (glass shard, brown fabric), no staining, garbage odor.
SS	11-4-2-4	25%	0.0	-	13	
					14	13-13.5': wet, soft, brown SILT, some clay and m-sand, little waste (plastic, glass, woodchips, brick), trace subrounded c-gravel, no staining/odor.
SS	5-4-6-4	25%	0.0	-	15	
					16	15-16': damp WOOD chunks.
SS	9-5-4-5	50%	0.0	-	17	
					18	17-17.4': damp WOOD chunks.
SS	4-7-7-6	20%	0.0	-	19	
					20	19-19.5': moist, medium dense, gray fine SAND, some silt and clay, no staining/odor. 19.5-19.8': moist, medium stiff, gray CLAY, some silt, little f-sand, no staining/odor.
SS	3-4-6-7	40%	0.0	SC	21	
					22	21-21.2': wet, medium stiff, gray CLAY, some silt, little f-sand, no staining/odor. 21.2-22': saturated, medium dense, gray fine SAND, some silt, little clay, no staining/odor. (demonstrates liquefaction)
SS	4-5-7-9	50%	0.0	SC	23	

SCHEMATIC (Drawing Not to Scale)



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole) MC=Macro Core
SS= Split Spoon HS = Hollow Stem

COMMENTS:

Fine sands demonstrate liquefaction; monitoring well constructed of 10' of 2" diameter, SCH 40, 0.010 slotted PVC screen, 22' of 2" diameter, SCH 40 PVC riser, 3 bags of #0 filter sand, 1 bag of #00 choke sand, bentonite, Type I-Portland cement, and 5' stick-up pro-casing.

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-04

Contractor: NW Contracting
Driller: Brett Landsman
Oversight: Richard Inclima
Rig Type: Diedrich D-50

PROJECT NAME: Lyndon Rd LF
PROJECT Location: Perinton, NY

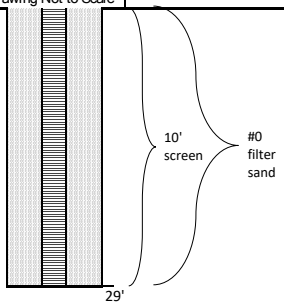
Location Description: 43.090246, -77.400525

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		21	ft bls
Measured Water Level:		21	ft bls
Total Depth of Well:		29	ft bls
Additional Comments:			

Date/Time Start: 5/11/20 -- 0915
Date/Time Finish: 5/11/20 -- 1430

Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					23	23-24.3': saturated, medium dense, gray fine SAND, no staining/odor. (demonstrates liquefaction)
SS	6-6-11-11	65%	0.0	SW	24	
					25	25-26.5': saturated, medium dense, gray-brown fine SAND, some silt, little clay, no staining/odor. (demonstrates liquefaction)
					26	
SS	7-12-10-10	75%	0.0	SM	27	
					28	27-28.5': saturated, medium dense, gray-brown fine SAND, some silt and intermittent clay lenses, no staining/odor.
SS	6-9-11-9	80%	0.0	SC	29	28.5-28.6': wet, medium stiff, gray-brown CLAY, some silt, little f-sand, no staining/odor.

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole) MC=Macro Core
SS= Split Spoon HS = Hollow Stem

COMMENTS:
Fine sands demonstrate liquefaction; monitoring well constructed of 10' of 2" diameter, SCH 40, 0.010 slotted PVC screen, 22' of 2" diameter, SCH 40 PVC riser, 3 bags of #0 filter sand, 1 bag of #00 choke sand, bentonite, Type I-Portland cement, and 5' stick-up pro-casing.

ATTACHMENT 3

SAMPLING LOGS

Low Flow Ground Water Sampling Log

Date	08/19/20	Personnel	AKS, AC, KM	Weather	61 F, Partly Cloudy
Site Name	Lyndon Road	Evacuation Method	Low Flow	Well #	MW-01
Site Location	Fairport, NY	Sampling Method	Peri Pump + HDPE	Project #	452148:08000

Well information:

Depth of Well	26.63	ft.
Depth to Water	19.26	ft.
H_{wc}	7.37	ft.
Depth to Intake	21	ft.

*Measurements taken from:

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 09:15

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
0	19.26	18.57	6.05	2.83	-122	1.37	125	250
5	19.24	19.04	6.43	2.73	-159	0.27	49.3	250
10	19.24	18.93	6.56	2.73	-168	0	17.7	250
15	19.24	19.02	6.6	2.73	-172	0	22	250
20	19.24	19.11	6.64	2.73	-175	0	11.3	250
25	19.24	19.18	6.66	2.73	-179	0	6.4	250
30	19.24	19.26	6.69	2.72	-180	0	4.6	250
35	19.24	19.32	6.71	2.72	-182	0	4.2	250
40	19.24	19.34	6.72	2.72	-182	0	3.9	250
45	19.24	19.33	6.7	2.72	-182	0	4	250

End Purge Time: 10:00

Water Sample

Time Collected: 10:10

Physical appearance at start:

Color	Clear
Odor	None
Sheen/Free Product	None

Total volume of purged water removed: 4 (gallons)

Physical appearance at start:

Color	Clear
Odor	Yes
Sheen/Free Product	Effervescent

Samples: (See list of parameters collected below)

MS/MSD/Field Dup - Yes, Collected All

10:10 AM - 8-MON-009-003-01

10:15 AM - 8-MON-009-003-02 (Field Dup)

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
Alkalinity	125 mL Plastic	1	no	none	-
Ammonia/COD	250 mL Plastic	1	no	H2SO4	-
PAHs + 1,4-Dioxane	1 L Amber	2	no	none	-
Chl/Tds/Bro/SO4	60 mL Plastic	1	no	none	-
TOC	40 mL Glass	2	no	HCl	-
TDS	500 mL Plastic	1	no	none	-
VOCs	40 mL Glass	3	no	HCl	-
Mod. Bsln Metals / Hardness	250 mL Plastic	2	no	HNO3	-
PFAS	250 mL Plastic	2	no	none	-
PAHs	250 mL Amber	2	no	none	-

Low Flow Ground Water Sampling Log

Date	08/18/20	Personnel	AKS, AC, KM	Weather	72 F, Mostly Cloudy
Site Name	Lyndon Road	Evacuation Method	Low Flow	Well #	MW-02
Site Location	Fairport, NY	Sampling Method	Peri Pump + HDPE	Project #	452148:08000

Well information:

Depth of Well	17.6	ft.
Depth to Water	9.15	ft.
H_{wc}	8.45	ft.
Depth to Intake	13	ft.

*Measurements taken from:

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 13:30

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
0	9.15	18.91	6.64	2.9	-139	2.44	148	250
5	9.24	18.16	6.56	2.87	-139	0.84	97.9	250
10	9.24	18.15	6.49	2.87	-135	0.38	121	250
15	9.24	17.91	6.44	2.91	-134	0.21	142	250
20	9.25	17.9	6.41	2.92	-133	0.08	196	250
25	9.25	17.85	6.4	2.93	-133	0.06	248	250
30	9.25	17.63	6.4	2.91	-134	0	234	250
35	9.25	17.7	6.42	2.88	-135	0	183	250
40	9.25	17.84	6.44	2.86	-136	0	132	250
45	9.25	17.93	6.46	2.85	-137	0	107	250
50	9.25	18.02	6.48	2.84	-138	0	97.1	250
55	9.25	18.5	6.5	2.84	-140	0	89.2	250
60	9.25	18.87	6.52	2.83	-141	0	78.6	250
65	9.25	19.05	6.55	2.83	-142	0	66.7	250
70	9.25	18.93	6.56	2.83	-142	0	58.9	250
75	9.25	18.37	6.56	2.84	-141	0	45.1	250
80	9.25	18.23	6.56	2.83	-141	0	42	250
85	9.25	18.61	6.55	2.81	-141	0	37.9	250
90	9.25	19.17	6.54	2.81	-141	0	33.3	250
95	9.25	19.23	6.55	2.81	-141	0	27.4	250
100	9.25	19.19	6.56	2.83	-142	0	20.9	250
105	9.25	19.07	6.56	2.83	-142	0	16.6	250

End Purge Time: 15:30

Water Sample

Time Collected: 15:35

Total volume of purged water removed: 5 (gallons)

Physical appearance at start:	
Color	Clear
Odor	None
Sheen/Free Product	None

Physical appearance at start:	
Color	Clear
Odor	None
Sheen/Free Product	None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

8-MON-009-002-01

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
Alkalinity	125 mL Plastic	1	no	none	-
Ammonia/COD	250 mL Plastic	1	no	H2SO4	-
PAHs + 1,4-Dioxane	1 L Amber	2	no	none	-
Chl/Tds/Bro/SO4	60 mL Plastic	1	no	none	-
TOC	40 mL Glass	2	no	HCl	-
TDS	500 mL Plastic	1	no	none	-
VOCs	40 mL Glass	3	no	HCl	-
Mod. Bsln Metals / Hardness	250 mL Plastic	2	no	HNO3	-
PFAS	250 mL Plastic	2	no	none	-
PAHs	250 mL Amber	2	no	none	-

Low Flow Ground Water Sampling Log

Date	08/18/20	Personnel	AKS, AC, KM	Weather	72 F, Mostly Cloudy
Site Name	Lyndon Road	Evacuation Method	Low Flow	Well #	MW-02
Site Location	Fairport, NY	Sampling Method	Peri Pump + HDPE	Project #	452148:08000

Well information:

Depth of Well	17.6	ft.
Depth to Water	9.15	ft.
H_{wc}	8.45	ft.
Depth to Intake	13	ft.

*Measurements taken from:

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 13:30

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
110	9.25	18.84	6.54	2.82	-142	0	13.1	250
115	9.25	19.02	6.59	2.8	-144	0	20	250
120	9.25	19.38	6.66	2.79	-145	0	24.9	250

End Purge Time: 15:30

Water Sample

Time Collected: 15:35

Total volume of purged water removed: 5 (gallons)

Physical appearance at start:

Color	Clear
Odor	None
Sheen/Free Product	None

Physical appearance at start:

Color	Clear
Odor	None
Sheen/Free Product	None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

8-MON-009-002-01

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
Alkalinity	125 mL Plastic	1	no	none	-
Ammonia/COD	250 mL Plastic	1	no	H2SO4	-
PAHs + 1,4-Dioxane	1 L Amber	2	no	none	-
Chl/Tds/Bro/SO4	60 mL Plastic	1	no	none	-
TOC	40 mL Glass	2	no	HCl	-
TDS	500 mL Plastic	1	no	none	-
VOCs	40 mL Glass	3	no	HCl	-
Mod. Bsln Metals / Hardness	250 mL Plastic	2	no	HNO3	-
PFAS	250 mL Plastic	2	no	none	-
PAHs	250 mL Amber	2	no	none	-

Low Flow Ground Water Sampling Log

Date	08/20/20	Personnel	AKS, AC	Weather	70 F, Sunny
Site Name	Lyndon Road	Evacuation Method	Low Flow	Well #	MW-03
Site Location	Fairport, NY	Sampling Method	Bladder Pump + HDPE	Project #	452148:08000

Well information:

Depth of Well	34.61	ft.
Depth to Water	29.14	ft.
H_{wc}	5.47	ft.
Depth to Intake	31	ft.

*Measurements taken from:

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 10:45

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
10:45	29.15	20.49	6.41	2.27	-160	1.03	67.4	400
10:50	29.15	20.6	6.49	2.24	-172	0.08	15.3	300
10:55	29.15	20.64	6.5	2.24	-176	0	4.9	300
11:00	29.15	20.67	6.5	2.24	-177	0	0.7	300
11:05	29.15	20.71	6.51	2.24	-177	0	0	300
11:10	29.15	20.72	6.5	2.26	-177	0	0	300
11:15	29.15	20.73	6.51	2.26	-177	0	0	300

End Purge Time: 11:15

Water Sample

Time Collected: 11:30

Physical appearance at start:

Color	Clear
Odor	Tar-like
Sheen/Free Product	Slight sheen effervesence

Total volume of purged water removed: 2.5 (gallons)

Physical appearance at start:

Color	Clear
Odor	Tar-like
Sheen/Free Product	None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

8-MON-009-004-01

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
Alkalinity	125 mL Plastic	1	no	none	-
Ammonia/COD	250 mL Plastic	1	no	H2SO4	-
PAHs + 1,4-Dioxane	1 L Amber	2	no	none	-
Chl/Tds/Bro/SO4	60 mL Plastic	1	no	none	-
TOC	40 mL Glass	2	no	HCl	-
TDS	500 mL Plastic	1	no	none	-
VOCs	40 mL Glass	3	no	HCl	-
Mod. Bsln Metals / Hardness	250 mL Plastic	2	no	HNO3	-
PFAS	250 mL Plastic	2	no	none	-
PAHs	250 mL Amber	2	no	none	-

Low Flow Ground Water Sampling Log

Date	08/19/20	Personnel	AKS, AC, KM	Weather	70 F, Mostly Cloudy
Site Name	Lyndon Road	Evacuation Method	Low Flow	Well #	MW-04
Site Location	Fairport, NY	Sampling Method	Bladder Pump + HDPE	Project #	452148:08000

Well information:

Depth of Well	32.44	ft.
Depth to Water	20.78	ft.
H_{wc}	11.66	ft.
Depth to Intake	27.44	ft.

*Measurements taken from:

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 13:10

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
0	20.78	18.67	6.79	2.42	-198	1.92	250	200
5	21	17.35	6.76	2.44	-180	3.59	350	200
10	21	17.17	6.75	2.44	-173	7.44	324	200
15	21	17.06	6.75	2.44	-168	7.31	268	200
20	21.1	16.79	6.78	2.45	-167	7.17	234	200
25	21.1	16.73	6.8	2.44	-167	6.9	205	200
30	21.1	16.87	6.83	2.45	-168	6.61	177	200
35	21.1	16.69	6.83	2.45	-168	6.55	163	200
40	21.1	16.54	6.84	2.47	-167	6.42	154	200
45	21.1	16.83	6.84	2.46	-167	6.16	138	200
50	21.1	16.74	6.84	2.47	-166	6	125	200
55	21.1	16.65	6.84	2.47	-166	5.88	121	200
60	21.1	16.54	6.85	2.48	-166	5.75	119	200
65	21.1	16.69	6.86	2.48	-166	5.57	111	200
70	21.1	16.63	6.86	2.48	-166	5.47	105	200
75	21.1	16.66	6.68	2.49	-166	5.32	99.7	200
80	21.1	16.65	6.88	2.51	-166	5.18	92	200
85	21.1	16.5	6.88	2.52	-166	5.18	94.7	200
90	21.1	16.48	6.88	2.53	-166	5.09	87.3	200
95	21.1	16.48	6.88	2.53	-166	4.99	84	200
100	21.1	16.44	6.86	2.55	-165	4.93	79.4	200
105	21.1	16.37	6.85	2.57	-164	4.87	78.8	200

End Purge Time: 15:25

Water Sample

Time Collected: 15:30

Total volume of purged water removed: 5 (gallons)

Physical appearance at start:

Color	Gray
Odor	None
Sheen/Free Product	None

Physical appearance at start:

Color	Gray
Odor	None
Sheen/Free Product	None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

8-MON-009-003-03

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
Alkalinity	125 mL Plastic	1	no	none	-
Ammonia/COD	250 mL Plastic	1	no	H2SO4	-
PAHs + 1,4-Dioxane	1 L Amber	2	no	none	-
Chl/Tds/Bro/SO4	60 mL Plastic	1	no	none	-
TOC	40 mL Glass	2	no	HCl	-
TDS	500 mL Plastic	1	no	none	-
VOCs	40 mL Glass	3	no	HCl	-
Mod. Bsln Metals / Hardness	250 mL Plastic	2	no	HNO3	-
PFAS	250 mL Plastic	2	no	none	-
PAHs	250 mL Amber	2	no	none	-

Low Flow Ground Water Sampling Log

Date	08/19/20	Personnel	AKS, AC, KM	Weather	70 F, Mostly Cloudy
Site Name	Lyndon Road	Evacuation Method	Low Flow	Well #	MW-04
Site Location	Fairport, NY	Sampling Method	Bladder Pump + HDPE	Project #	452148:08000

Well information:

Depth of Well	32.44	ft.
Depth to Water	20.78	ft.
H_{wc}	11.66	ft.
Depth to Intake	27.44	ft.

*Measurements taken from:

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 13:10

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
110	21.05	16.49	6.86	2.57	-165	4.76	77.7	200
115	21.05	16.54	6.87	2.58	-164	4.71	84.3	200
120	21.05	16.63	6.86	2.58	-164	4.63	77.1	200
125	21.05	16.54	6.85	2.6	-163	4.58	76.2	200
130	21.05	16.68	6.86	2.61	-163	4.52	73.5	200

End Purge Time: 15:25

Water Sample

Time Collected: 15:30

Total volume of purged water removed: 5 (gallons)

Physical appearance at start:

Color	Gray
Odor	None
Sheen/Free Product	None

Physical appearance at start:

Color	Gray
Odor	None
Sheen/Free Product	None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

8-MON-009-003-03

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
Alkalinity	125 mL Plastic	1	no	none	-
Ammonia/COD	250 mL Plastic	1	no	H2SO4	-
PAHs + 1,4-Dioxane	1 L Amber	2	no	none	-
Chl/Tds/Bro/SO4	60 mL Plastic	1	no	none	-
TOC	40 mL Glass	2	no	HCl	-
TDS	500 mL Plastic	1	no	none	-
VOCs	40 mL Glass	3	no	HCl	-
Mod. Bsln Metals / Hardness	250 mL Plastic	2	no	HNO3	-
PFAS	250 mL Plastic	2	no	none	-
PAHs	250 mL Amber	2	no	none	-

ATTACHMENT 4

Analytical Laboratory Level II Data Deliverable

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-173952-1
Client Project/Site: 8 MON-009 Lyndon Road LF

For:
Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

Attn: Mr. George Moreau

Joseph V. Giacomazza

Authorized for release by:
8/27/2020 1:25:50 PM

Joe Giacomazza, Project Manager I
(716)691-2600
joe.giacomazza@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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

Job ID: 480-173952-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-173952-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: 8-MON-009-002-01 (480-173952-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-546446 recovered above the upper control limit for Acrylonitrile and 2-Butanone (MEK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 8-MON-009-002-01 (480-173952-1) and 8-MON-009-002-04 (480-173952-4).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-546446 recovered outside control limits for the following analytes: Acrylonitrile. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or 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: 8-MON-009-002-01 (480-173952-1). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample 8-MON-009-002-01 (480-173952-1) 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.

Method 8270D_LL_PAH: The method blank for preparation batch 480-546427 contained Phenanthrene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound or were below client reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8270D_LL_PAH: The following compound has been spiked at a level above the upper range of the initial calibration: Dibenz(a,h)anthracene. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-546427 and analytical batch 480-546675 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-546427/2-A)

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: 8-MON-009-002-01 (480-173952-1). Elevated reporting limits (RLs) are provided.

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

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA

Job ID: 480-173952-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

solution. 8-MON-009-002-01 (480-173952-1) and (MB 480-545977/1-A)

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

LCMS
Method 537 (modified): The method blank for preparation batch 200-158112 and analytical batch 200-158157 contained Perfluorobutanesulfonic acid (PFBS) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method 537 (modified): Results for sample 8-MON-009-002-01 (480-173952-1) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were above acceptance limits; matrix interference is suspected.

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

General Chemistry
Method SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 8-MON-009-002-01 (480-173952-1). The reporting limits (RLs) have been adjusted proportionately.

Method SM 2320B: The method requirement for no headspace was not met. The following samples were analyzed with headspace in the sample container(s): (480-173868-I-4), (480-173868-I-4 MS) and (480-173868-I-4 MSD).

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: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-173952-1

Client Sample ID: 8-MON-009-002-01 — Lab Sample ID: 480-173952-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	43	E	2.0	1.0	ug/L	10		8270D SIM ID	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.0	J	18	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	71	B	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	1100		88	44	ng/L	50		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	4.8		1.8	0.83	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	350		88	40	ng/L	50		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	100		1.8	0.70	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	540		88	33	ng/L	50		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.8		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	62		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	8100		88	35	ng/L	50		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	250		1.8	0.55	ng/L	1		537 (modified)	Total/NA
Aluminum	0.25		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.011	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.32	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	5.6		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	268		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0013	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0026	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	13.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	216		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.10		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0063	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	45.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	182		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	115		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	488		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	17.3		0.20	0.090	mg/L	10		350.1	Total/NA
Chemical Oxygen Demand	159		20.0	10.0	mg/L	2		410.4	Total/NA
Total Organic Carbon	55.2		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	1350		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	1580		20.0	5.3	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	1980		40.0	16.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 8-MON-009-002-02 — Lab Sample ID: 480-173952-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.81	J B	2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.90	J	2.0	0.76	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.76	J	2.0	0.63	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 8-MON-009-002-03 — Lab Sample ID: 480-173952-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.66	J B	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.76	J	1.8	0.68	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.4	J	1.8	0.73	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 8-MON-009-002-04 — Lab Sample ID: 480-173952-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-173952-1

Client Sample ID: 8-MON-009-002-01
Date Collected: 08/18/20 15:35
Date Received: 08/19/20 08:00

Lab Sample ID: 480-173952-1
Matrix: Water

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		5.0	1.8	ug/L			08/24/20 12:59	5
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			08/24/20 12:59	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			08/24/20 12:59	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			08/24/20 12:59	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			08/24/20 12:59	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			08/24/20 12:59	5
1,2,3-Trichloropropane	ND		5.0	4.5	ug/L			08/24/20 12:59	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			08/24/20 12:59	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			08/24/20 12:59	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			08/24/20 12:59	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			08/24/20 12:59	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			08/24/20 12:59	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			08/24/20 12:59	5
2-Butanone (MEK)	ND		50	6.6	ug/L			08/24/20 12:59	5
2-Hexanone	ND		25	6.2	ug/L			08/24/20 12:59	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			08/24/20 12:59	5
Acetone	ND		50	15	ug/L			08/24/20 12:59	5
Acrylonitrile	ND	*	25	4.2	ug/L			08/24/20 12:59	5
Benzene	ND		5.0	2.1	ug/L			08/24/20 12:59	5
Bromodichloromethane	ND		5.0	2.0	ug/L			08/24/20 12:59	5
Bromoform	ND		5.0	1.3	ug/L			08/24/20 12:59	5
Bromomethane	ND		5.0	3.5	ug/L			08/24/20 12:59	5
Carbon disulfide	ND		5.0	0.95	ug/L			08/24/20 12:59	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			08/24/20 12:59	5
Chlorobenzene	ND		5.0	3.8	ug/L			08/24/20 12:59	5
Chlorobromomethane	ND		5.0	4.4	ug/L			08/24/20 12:59	5
Chloroethane	ND		5.0	1.6	ug/L			08/24/20 12:59	5
Chloroform	ND		5.0	1.7	ug/L			08/24/20 12:59	5
Chloromethane	ND		5.0	1.8	ug/L			08/24/20 12:59	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			08/24/20 12:59	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			08/24/20 12:59	5
Dibromochloromethane	ND		5.0	1.6	ug/L			08/24/20 12:59	5
Dibromomethane	ND		5.0	2.1	ug/L			08/24/20 12:59	5
Ethylbenzene	ND		5.0	3.7	ug/L			08/24/20 12:59	5
Iodomethane	ND		5.0	1.5	ug/L			08/24/20 12:59	5
m,p-Xylene	ND		10	3.3	ug/L			08/24/20 12:59	5
Methylene Chloride	ND		5.0	2.2	ug/L			08/24/20 12:59	5
o-Xylene	ND		5.0	3.8	ug/L			08/24/20 12:59	5
Styrene	ND		5.0	3.7	ug/L			08/24/20 12:59	5
Tetrachloroethene	ND		5.0	1.8	ug/L			08/24/20 12:59	5
Toluene	ND		5.0	2.6	ug/L			08/24/20 12:59	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			08/24/20 12:59	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			08/24/20 12:59	5
trans-1,4-Dichloro-2-butene	ND		5.0	1.1	ug/L			08/24/20 12:59	5
Trichloroethene	ND		5.0	2.3	ug/L			08/24/20 12:59	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			08/24/20 12:59	5
Vinyl acetate	ND		25	4.3	ug/L			08/24/20 12:59	5
Vinyl chloride	ND		5.0	4.5	ug/L			08/24/20 12:59	5
Xylenes, Total	ND		10	3.3	ug/L			08/24/20 12:59	5

Client Sample ID: 8-MON-009-002-01
Date Collected: 08/18/20 15:35
Date Received: 08/19/20 08:00

Lab Sample ID: 480-173952-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*08/24/20 12:59*	*5*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*08/24/20 12:59*	*5*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*08/24/20 12:59*	*5*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/24/20 12:59*	*5*

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	**43**	**E**	2.0	1.0	ug/L		08/19/20 14:47	08/22/20 17:30	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*21*		*15 - 110*	*08/19/20 14:47*	*08/22/20 17:30*	*10*

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		08/24/20 07:49	08/26/20 09:09	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/24/20 07:49	08/26/20 09:09	1
Anthracene	ND		0.50	0.39	ug/L		08/24/20 07:49	08/26/20 09:09	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/24/20 07:49	08/26/20 09:09	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 09:09	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 09:09	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 09:09	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/24/20 07:49	08/26/20 09:09	1
Chrysene	ND		0.50	0.32	ug/L		08/24/20 07:49	08/26/20 09:09	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 09:09	1
Fluoranthene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 09:09	1
Fluorene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 09:09	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/24/20 07:49	08/26/20 09:09	1
Naphthalene	ND		0.50	0.42	ug/L		08/24/20 07:49	08/26/20 09:09	1
Phenanthrene	ND		0.50	0.38	ug/L		08/24/20 07:49	08/26/20 09:09	1
Pyrene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 09:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*48 - 120*	*08/24/20 07:49*	*08/26/20 09:09*	*1*
Nitrobenzene-d5	*95*		*46 - 120*	*08/24/20 07:49*	*08/26/20 09:09*	*1*
p-Terphenyl-d14	*47*		*24 - 136*	*08/24/20 07:49*	*08/26/20 09:09*	*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		18	2.5	ng/L		08/20/20 14:30	08/21/20 21:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.8	ng/L		08/20/20 14:30	08/21/20 21:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**4.0**	**J**	18	1.3	ng/L		08/20/20 14:30	08/21/20 21:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorobutanesulfonic acid (PFBS)	**71**	**B**	1.8	0.43	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorobutanoic acid (PFBA)	**1100**		88	44	ng/L		08/20/20 14:30	08/24/20 16:18	50
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.79	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.67	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		08/20/20 14:30	08/21/20 21:41	1

Client Sample ID: 8-MON-009-002-01
Date Collected: 08/18/20 15:35
Date Received: 08/19/20 08:00

Lab Sample ID: 480-173952-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	**4.8**		1.8	0.83	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluoroheptanoic acid (PFHpA)	**350**		88	40	ng/L		08/20/20 14:30	08/24/20 16:18	50
Perfluorohexanesulfonic acid (PFHxS)	**100**		1.8	0.70	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorohexanoic acid (PFHxA)	**540**		88	33	ng/L		08/20/20 14:30	08/24/20 16:18	50
Perfluorononanoic acid (PFNA)	**5.8**		1.8	0.24	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.8	8.8	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorooctanesulfonic acid (PFOS)	**62**		1.8	0.53	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorooctanoic acid (PFOA)	**8100**		88	35	ng/L		08/20/20 14:30	08/24/20 16:18	50
Perfluoropentanoic acid (PFPeA)	**250**		1.8	0.55	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		08/20/20 14:30	08/21/20 21:41	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.68	ng/L		08/20/20 14:30	08/21/20 21:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*99*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
13C2 PFDoA	*92*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
13C2 PFHxA	*76*		*50 - 150*	*08/20/20 14:30*	*08/24/20 16:18*	*50*
13C2 PFUnA	*92*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
13C2 PFTeDA	*91*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
13C4 PFBA	*77*		*25 - 150*	*08/20/20 14:30*	*08/24/20 16:18*	*50*
13C4 PFOA	*79*		*50 - 150*	*08/20/20 14:30*	*08/24/20 16:18*	*50*
13C4 PFOS	*67*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
13C4 PFHpA	*79*		*50 - 150*	*08/20/20 14:30*	*08/24/20 16:18*	*50*
13C5 PFNA	*88*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
13C5 PFPeA	*58*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
13C8 FOSA	*56*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
18O2 PFHxS	*71*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
d3-NMeFOSAA	*89*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
d5-NEtFOSAA	*89*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*
M2-8:2 FTS	*105*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.25**		0.20	0.060	mg/L		08/21/20 09:58	08/24/20 15:35	1
Antimony	ND		0.020	0.0068	mg/L		08/21/20 09:58	08/24/20 15:35	1
Arsenic	**0.011**	**J**	0.015	0.0056	mg/L		08/21/20 09:58	08/24/20 15:35	1
Barium	**0.32**	**^**	0.0020	0.00070	mg/L		08/21/20 09:58	08/24/20 15:35	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/20 09:58	08/24/20 15:35	1
Boron	**5.6**		0.020	0.0040	mg/L		08/21/20 09:58	08/24/20 15:35	1
Cadmium	ND		0.0020	0.00050	mg/L		08/21/20 09:58	08/24/20 15:35	1
Calcium	**268**		0.50	0.10	mg/L		08/21/20 09:58	08/24/20 15:35	1
Chromium	**0.0013**	**J**	0.0040	0.0010	mg/L		08/21/20 09:58	08/24/20 15:35	1
Cobalt	**0.0026**	**J**	0.0040	0.00063	mg/L		08/21/20 09:58	08/24/20 15:35	1
Copper	ND		0.010	0.0016	mg/L		08/21/20 09:58	08/24/20 15:35	1
Iron	**13.0**		0.050	0.019	mg/L		08/21/20 09:58	08/24/20 15:35	1
Lead	ND		0.010	0.0030	mg/L		08/21/20 09:58	08/24/20 15:35	1
Magnesium	**216**		0.20	0.043	mg/L		08/21/20 09:58	08/24/20 15:35	1

Client Sample ID: 8-MON-009-002-01

Lab Sample ID: 480-173952-1

Date Collected: 08/18/20 15:35

Matrix: Water

Date Received: 08/19/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.10**		0.0030	0.00040	mg/L		08/21/20 09:58	08/24/20 15:35	1
Nickel	**0.0063**	**J**	0.010	0.0013	mg/L		08/21/20 09:58	08/24/20 15:35	1
Potassium	**45.3**		0.50	0.10	mg/L		08/21/20 09:58	08/24/20 15:35	1
Selenium	ND		0.025	0.0087	mg/L		08/21/20 09:58	08/24/20 15:35	1
Silver	ND		0.0060	0.0017	mg/L		08/21/20 09:58	08/24/20 15:35	1
Sodium	**182**		1.0	0.32	mg/L		08/21/20 09:58	08/24/20 15:35	1
Thallium	ND		0.020	0.010	mg/L		08/21/20 09:58	08/24/20 15:35	1
Vanadium	ND		0.0050	0.0015	mg/L		08/21/20 09:58	08/24/20 15:35	1
Zinc	ND		0.010	0.0015	mg/L		08/21/20 09:58	08/24/20 15:35	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/20 12:37	08/21/20 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		2.0	0.73	mg/L			08/24/20 14:23	10
Chloride	**115**		5.0	2.8	mg/L			08/24/20 14:23	10
Sulfate	**488**		20.0	3.5	mg/L			08/24/20 14:23	10
Ammonia	**17.3**		0.20	0.090	mg/L			08/20/20 10:18	10
Chemical Oxygen Demand	**159**		20.0	10.0	mg/L			08/22/20 22:01	2
Total Organic Carbon	**55.2**		1.0	0.43	mg/L			08/20/20 00:26	1
Alkalinity, Total	**1350**		5.0	0.79	mg/L			08/21/20 22:47	1
Total hardness as CaCO3	**1580**		20.0	5.3	mg/L			08/24/20 13:37	1
Total Dissolved Solids	**1980**		40.0	16.0	mg/L			08/19/20 16:40	1

Client Sample ID: 8-MON-009-002-02

Lab Sample ID: 480-173952-2

Date Collected: 08/18/20 16:00

Matrix: Water

Date Received: 08/19/20 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		20	2.9	ng/L		08/20/20 14:30	08/21/20 21:50	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		20	5.5	ng/L		08/20/20 14:30	08/21/20 21:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		08/20/20 14:30	08/21/20 21:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluorobutanesulfonic acid (PFBS)	**0.81**	**J B**	2.0	0.49	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluorobutanoic acid (PFBA)	ND		2.0	0.99	ng/L		08/20/20 14:30	08/24/20 16:26	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.89	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.94	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.90	ng/L		08/20/20 14:30	08/24/20 16:26	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.79	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluorohexanoic acid (PFHxA)	**0.90**	**J**	2.0	0.76	ng/L		08/20/20 14:30	08/24/20 16:26	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		08/20/20 14:30	08/21/20 21:50	1

Client Sample ID: 8-MON-009-002-02

Lab Sample ID: 480-173952-2

Date Collected: 08/18/20 16:00

Matrix: Water

Date Received: 08/19/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (PFOSA)	ND		9.9	9.9	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.80	ng/L		08/20/20 14:30	08/24/20 16:26	1
Perfluoropentanoic acid (PFPeA)	**0.76**	**J**	2.0	0.63	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.91	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60	ng/L		08/20/20 14:30	08/21/20 21:50	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.78	ng/L		08/20/20 14:30	08/21/20 21:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*95*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
13C2 PFDoA	*87*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
13C2 PFHxA	*103*		*50 - 150*	*08/20/20 14:30*	*08/24/20 16:26*	*1*
13C2 PFUnA	*88*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
13C2 PFTeDA	*79*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
13C4 PFBA	*108*		*25 - 150*	*08/20/20 14:30*	*08/24/20 16:26*	*1*
13C4 PFOA	*91*		*50 - 150*	*08/20/20 14:30*	*08/24/20 16:26*	*1*
13C4 PFOS	*87*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
13C4 PFHpA	*98*		*50 - 150*	*08/20/20 14:30*	*08/24/20 16:26*	*1*
13C5 PFNA	*96*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
13C5 PFPeA	*101*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
13C8 FOSA	*64*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
18O2 PFHxS	*96*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
d3-NMeFOSAA	*82*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
d5-NEtFOSAA	*84*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
M2-6:2 FTS	*84*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*
M2-8:2 FTS	*89*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:50*	*1*

Client Sample ID: 8-MON-009-002-03

Lab Sample ID: 480-173952-3

Date Collected: 08/18/20 16:05

Matrix: Water

Date Received: 08/19/20 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		08/20/20 14:30	08/21/20 21:58	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.9	ng/L		08/20/20 14:30	08/21/20 21:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.3	ng/L		08/20/20 14:30	08/21/20 21:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorobutanesulfonic acid (PFBS)	**0.66**	**J B**	1.8	0.44	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorobutanoic acid (PFBA)	ND		1.8	0.90	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.81	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.69	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.53	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.85	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.82	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.72	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorohexanoic acid (PFHxA)	**0.76**	**J**	1.8	0.68	ng/L		08/20/20 14:30	08/21/20 21:58	1

Client Sample ID: 8-MON-009-002-03

Lab Sample ID: 480-173952-3

Date Collected: 08/18/20 16:05

Matrix: Water

Date Received: 08/19/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.0	9.0	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.55	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorooctanoic acid (PFOA)	**1.4**	**J**	1.8	0.73	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.57	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.83	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.54	ng/L		08/20/20 14:30	08/21/20 21:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.70	ng/L		08/20/20 14:30	08/21/20 21:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*101*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C2 PFDoA	*86*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C2 PFHxA	*103*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C2 PFUnA	*95*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C4 PFBA	*105*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C4 PFOA	*100*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C4 PFOS	*88*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C4 PFHpA	*99*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C5 PFNA	*97*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C5 PFPeA	*99*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
13C8 FOSA	*63*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
18O2 PFHxS	*91*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
d3-NMeFOSAA	*87*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
d5-NEtFOSAA	*80*		*50 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
M2-6:2 FTS	*88*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*
M2-8:2 FTS	*92*		*25 - 150*	*08/20/20 14:30*	*08/21/20 21:58*	*1*

Client Sample ID: 8-MON-009-002-04

Lab Sample ID: 480-173952-4

Date Collected: 08/18/20 00:00

Matrix: Water

Date Received: 08/19/20 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			08/24/20 13:22	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/20 13:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/20 13:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/20 13:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/20 13:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/20 13:22	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/24/20 13:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/20 13:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/20 13:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/20 13:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/20 13:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/20 13:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/20 13:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/20 13:22	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/20 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/20 13:22	1
Acetone	ND		10	3.0	ug/L			08/24/20 13:22	1

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-173952-1

Client Sample ID: 8-MON-009-002-04
Date Collected: 08/18/20 00:00
Date Received: 08/19/20 08:00

Lab Sample ID: 480-173952-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND	*	5.0	0.83	ug/L			08/24/20 13:22	1
Benzene	ND		1.0	0.41	ug/L			08/24/20 13:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/20 13:22	1
Bromoform	ND		1.0	0.26	ug/L			08/24/20 13:22	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/20 13:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/20 13:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/20 13:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/20 13:22	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/24/20 13:22	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/20 13:22	1
Chloroform	ND		1.0	0.34	ug/L			08/24/20 13:22	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/20 13:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/20 13:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/20 13:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/20 13:22	1
Dibromomethane	ND		1.0	0.41	ug/L			08/24/20 13:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/20 13:22	1
Iodomethane	ND		1.0	0.30	ug/L			08/24/20 13:22	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/24/20 13:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/20 13:22	1
o-Xylene	ND		1.0	0.76	ug/L			08/24/20 13:22	1
Styrene	ND		1.0	0.73	ug/L			08/24/20 13:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/20 13:22	1
Toluene	ND		1.0	0.51	ug/L			08/24/20 13:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/20 13:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/20 13:22	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/24/20 13:22	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/20 13:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/20 13:22	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/24/20 13:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/20 13:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/24/20 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*08/24/20 13:22*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*08/24/20 13:22*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*08/24/20 13:22*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/24/20 13:22*	*1*

Surrogate Summary

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-173952-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-173952-1	8-MON-009-002-01	99	97	101	99
480-173952-4	8-MON-009-002-04	98	97	100	99
LCS 480-546446/6	Lab Control Sample	99	99	98	100
MB 480-546446/10	Method Blank	98	98	98	100

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)
480-173952-1	8-MON-009-002-01	98	95	47
LCS 480-546427/2-A	Lab Control Sample	102	108	101
MB 480-546427/1-A	Method Blank	103	98	103

Surrogate Legend

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

Isotope Dilution Summary

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-173952-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE
Lab Sample ID	Client Sample ID	(15-110)
480-173952-1	8-MON-009-002-01	21
LCS 480-545870/2-A	Lab Control Sample	25
LCSD 480-545870/3-A	Lab Control Sample Dup	25
MB 480-545870/1-A	Method Blank	22

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)							
		PFDA	PFDoA	PFHxA	PFUnA	PFTDA	PFBA	PFOA	PFOS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(25-150)	(50-150)	(50-150)
480-173952-1	8-MON-009-002-01	99	92		92	91			67
480-173952-1	8-MON-009-002-01			76			77	79	
480-173952-2	8-MON-009-002-02	95	87		88	79			87
480-173952-2	8-MON-009-002-02			103			108	91	
480-173952-3	8-MON-009-002-03	101	86	103	95	80	105	100	88
LCS 200-158112/2-A	Lab Control Sample	93	96	99	92	86	101	94	86
LCSD 200-158112/3-A	Lab Control Sample Dup	99	98	101	96	84	106	100	90
MB 200-158112/1-A	Method Blank	96	85	101	86	83	110	99	94

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		C4PFHA	PFNA	PFPeA	PFOSA	PFHxS	d3NMFOS	d5NEFOS	M262FTS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(25-150)	(25-150)	(50-150)	(50-150)	(50-150)	(25-150)
480-173952-1	8-MON-009-002-01		88	58	56	71	89	89	104
480-173952-1	8-MON-009-002-01	79							
480-173952-2	8-MON-009-002-02		96	101	64	96	82	84	84
480-173952-2	8-MON-009-002-02	98							
480-173952-3	8-MON-009-002-03	99	97	99	63	91	87	80	88
LCS 200-158112/2-A	Lab Control Sample	92	93	94	62	96	89	92	88
LCSD 200-158112/3-A	Lab Control Sample Dup	101	94	99	64	97	88	90	89
MB 200-158112/1-A	Method Blank	98	98	100	57	99	87	87	90

		Percent Isotope Dilution Recovery (Acceptance Limits)
		M282FTS
Lab Sample ID	Client Sample ID	(25-150)
480-173952-1	8-MON-009-002-01	105
480-173952-1	8-MON-009-002-01	
480-173952-2	8-MON-009-002-02	89
480-173952-2	8-MON-009-002-02	
480-173952-3	8-MON-009-002-03	92
LCS 200-158112/2-A	Lab Control Sample	86
LCSD 200-158112/3-A	Lab Control Sample Dup	94
MB 200-158112/1-A	Method Blank	98

Surrogate Legend

PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
PFHxA = 13C2 PFHxA
PFUnA = 13C2 PFUnA

Isotope Dilution Summary

Client: Parsons Corporation
Job ID: 480-173952-1
Project/Site: 8 MON-009 Lyndon Road LF

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

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

Lab Sample ID: MB 480-546446/10
Matrix: Water
Analysis Batch: 546446

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			08/24/20 12:05	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/20 12:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/20 12:05	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/20 12:05	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/20 12:05	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/20 12:05	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/24/20 12:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/20 12:05	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/20 12:05	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/20 12:05	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/20 12:05	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/20 12:05	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/20 12:05	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/20 12:05	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/20 12:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/20 12:05	1
Acetone	ND		10	3.0	ug/L			08/24/20 12:05	1
Acrylonitrile	ND		5.0	0.83	ug/L			08/24/20 12:05	1
Benzene	ND		1.0	0.41	ug/L			08/24/20 12:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/20 12:05	1
Bromoform	ND		1.0	0.26	ug/L			08/24/20 12:05	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/20 12:05	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/20 12:05	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/20 12:05	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/20 12:05	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/24/20 12:05	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/20 12:05	1
Chloroform	ND		1.0	0.34	ug/L			08/24/20 12:05	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/20 12:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/20 12:05	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/20 12:05	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/20 12:05	1
Dibromomethane	ND		1.0	0.41	ug/L			08/24/20 12:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/20 12:05	1
Iodomethane	ND		1.0	0.30	ug/L			08/24/20 12:05	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/24/20 12:05	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/20 12:05	1
o-Xylene	ND		1.0	0.76	ug/L			08/24/20 12:05	1
Styrene	ND		1.0	0.73	ug/L			08/24/20 12:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/20 12:05	1
Toluene	ND		1.0	0.51	ug/L			08/24/20 12:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/20 12:05	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/20 12:05	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/24/20 12:05	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/20 12:05	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/20 12:05	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/24/20 12:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/20 12:05	1

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

Lab Sample ID: MB 480-546446/10
Matrix: Water
Analysis Batch: 546446

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			08/24/20 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*08/24/20 12:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*08/24/20 12:05*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*08/24/20 12:05*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/24/20 12:05*	*1*

Lab Sample ID: LCS 480-546446/6
Matrix: Water
Analysis Batch: 546446

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	26.1		ug/L		104	80 - 120
1,1,1-Trichloroethane	25.0	24.1		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.7		ug/L		107	76 - 120
1,1,2-Trichloroethane	25.0	26.1		ug/L		104	76 - 122
1,1-Dichloroethane	25.0	25.7		ug/L		103	77 - 120
1,1-Dichloroethene	25.0	25.2		ug/L		101	66 - 127
1,2,3-Trichloropropane	25.0	27.6		ug/L		110	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.3		ug/L		109	56 - 134
1,2-Dibromoethane	25.0	26.4		ug/L		106	77 - 120
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	24.1		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	26.4		ug/L		106	76 - 120
1,4-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 120
2-Butanone (MEK)	125	153		ug/L		123	57 - 140
2-Hexanone	125	144		ug/L		116	65 - 127
4-Methyl-2-pentanone (MIBK)	125	142		ug/L		114	71 - 125
Acetone	125	154		ug/L		123	56 - 142
Acrylonitrile	250	314	*	ug/L		126	63 - 125
Benzene	25.0	25.5		ug/L		102	71 - 124
Bromodichloromethane	25.0	25.4		ug/L		101	80 - 122
Bromoform	25.0	26.1		ug/L		104	61 - 132
Bromomethane	25.0	20.0		ug/L		80	55 - 144
Carbon disulfide	25.0	26.2		ug/L		105	59 - 134
Carbon tetrachloride	25.0	23.8		ug/L		95	72 - 134
Chlorobenzene	25.0	25.3		ug/L		101	80 - 120
Chlorobromomethane	25.0	25.7		ug/L		103	72 - 130
Chloroethane	25.0	20.6		ug/L		82	69 - 136
Chloroform	25.0	22.9		ug/L		92	73 - 127
Chloromethane	25.0	24.0		ug/L		96	68 - 124
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	74 - 124
Dibromochloromethane	25.0	26.4		ug/L		106	75 - 125
Dibromomethane	25.0	25.6		ug/L		102	76 - 127
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Iodomethane	25.0	24.3		ug/L		97	78 - 123

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

Lab Sample ID: LCS 480-546446/6
Matrix: Water
Analysis Batch: 546446

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	25.6		ug/L		102	76 - 122
Methylene Chloride	25.0	24.9		ug/L		100	75 - 124
o-Xylene	25.0	25.7		ug/L		103	76 - 122
Styrene	25.0	25.4		ug/L		102	80 - 120
Tetrachloroethene	25.0	24.5		ug/L		98	74 - 122
Toluene	25.0	25.6		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
trans-1,3-Dichloropropene	25.0	26.6		ug/L		106	80 - 120
trans-1,4-Dichloro-2-butene	25.0	22.9		ug/L		92	41 - 131
Trichloroethene	25.0	25.2		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	21.2		ug/L		85	62 - 150
Vinyl acetate	50.0	54.2		ug/L		108	50 - 144
Vinyl chloride	25.0	21.5		ug/L		86	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: MB 480-545870/1-A
Matrix: Water
Analysis Batch: 546301

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 545870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		08/19/20 14:47	08/21/20 13:47	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*22*		*15 - 110*	*08/19/20 14:47*	*08/21/20 13:47*	*1*

Lab Sample ID: LCS 480-545870/2-A
Matrix: Water
Analysis Batch: 546301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 545870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.10		ug/L		110	40 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*25*		*15 - 110*

Lab Sample ID: LCSD 480-545870/3-A
Matrix: Water
Analysis Batch: 546301

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 545870

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	1.00	1.13		ug/L		113	40 - 140	3	20

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

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	25		15 - 110

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

Lab Sample ID: MB 480-546427/1-A
Matrix: Water
Analysis Batch: 546675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 06:49	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/24/20 07:49	08/26/20 06:49	1
Anthracene	ND		0.50	0.39	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/24/20 07:49	08/26/20 06:49	1
Chrysene	ND		0.50	0.32	ug/L		08/24/20 07:49	08/26/20 06:49	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 06:49	1
Fluoranthene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 06:49	1
Fluorene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 06:49	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/24/20 07:49	08/26/20 06:49	1
Naphthalene	ND		0.50	0.42	ug/L		08/24/20 07:49	08/26/20 06:49	1
Phenanthrene	0.568		0.50	0.38	ug/L		08/24/20 07:49	08/26/20 06:49	1
Pyrene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 06:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		48 - 120	08/24/20 07:49	08/26/20 06:49	1
Nitrobenzene-d5	98		46 - 120	08/24/20 07:49	08/26/20 06:49	1
p-Terphenyl-d14	103		24 - 136	08/24/20 07:49	08/26/20 06:49	1

Lab Sample ID: LCS 480-546427/2-A
Matrix: Water
Analysis Batch: 546675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	31.7		ug/L		99	60 - 120
Acenaphthylene	32.0	33.2		ug/L		104	63 - 120
Anthracene	32.0	34.5		ug/L		108	69 - 131
Benzo[a]anthracene	32.0	35.0		ug/L		109	62 - 142
Benzo[a]pyrene	32.0	36.4		ug/L		114	46 - 156
Benzo[b]fluoranthene	32.0	36.0		ug/L		113	50 - 149
Benzo[g,h,i]perylene	32.0	39.4		ug/L		123	34 - 189
Benzo[k]fluoranthene	32.0	35.0		ug/L		109	47 - 147
Chrysene	32.0	34.1		ug/L		107	69 - 140
Dibenz(a,h)anthracene	32.0	38.2	E	ug/L		119	35 - 176
Fluoranthene	32.0	36.3		ug/L		113	67 - 133
Fluorene	32.0	33.4		ug/L		104	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	38.7		ug/L		121	57 - 161
Naphthalene	32.0	30.6		ug/L		96	48 - 120
Phenanthrene	32.0	33.9		ug/L		106	67 - 130

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

Lab Sample ID: LCS 480-546427/2-A
Matrix: Water
Analysis Batch: 546675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546427

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pyrene			32.0	34.6		ug/L		108	58 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*102*		*48 - 120*
Nitrobenzene-d5	*108*		*46 - 120*
p-Terphenyl-d14	*101*		*24 - 136*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-158112/1-A
Matrix: Water
Analysis Batch: 158157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158112

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		08/20/20 14:30	08/21/20 18:47	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		20	5.5	ng/L		08/20/20 14:30	08/21/20 18:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		08/20/20 14:30	08/21/20 18:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorobutanesulfonic acid (PFBS)	0.697	J	2.0	0.49	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorobutanoic acid (PFBA)	ND		2.0	1.0	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorooctanesulfonamide (PFOSA)	ND		10	10	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.81	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.63	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60	ng/L		08/20/20 14:30	08/21/20 18:47	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.78	ng/L		08/20/20 14:30	08/21/20 18:47	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*96*		*50 - 150*	*08/20/20 14:30*	*08/21/20 18:47*	*1*
13C2 PFDoA	*85*		*50 - 150*	*08/20/20 14:30*	*08/21/20 18:47*	*1*
13C2 PFHxA	*101*		*50 - 150*	*08/20/20 14:30*	*08/21/20 18:47*	*1*
13C2 PFUnA	*86*		*50 - 150*	*08/20/20 14:30*	*08/21/20 18:47*	*1*
13C2 PFTeDA	*83*		*50 - 150*	*08/20/20 14:30*	*08/21/20 18:47*	*1*
13C4 PFBA	*110*		*25 - 150*	*08/20/20 14:30*	*08/21/20 18:47*	*1*
13C4 PFOA	*99*		*50 - 150*	*08/20/20 14:30*	*08/21/20 18:47*	*1*
13C4 PFOS	*94*		*50 - 150*	*08/20/20 14:30*	*08/21/20 18:47*	*1*

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

Lab Sample ID: MB 200-158112/1-A
Matrix: Water
Analysis Batch: 158157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158112

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	98		50 - 150	08/20/20 14:30	08/21/20 18:47	1
13C5 PFNA	98		50 - 150	08/20/20 14:30	08/21/20 18:47	1
13C5 PFPeA	100		25 - 150	08/20/20 14:30	08/21/20 18:47	1
13C8 FOSA	57		25 - 150	08/20/20 14:30	08/21/20 18:47	1
18O2 PFHxS	99		50 - 150	08/20/20 14:30	08/21/20 18:47	1
d3-NMeFOSAA	87		50 - 150	08/20/20 14:30	08/21/20 18:47	1
d5-NEtFOSAA	87		50 - 150	08/20/20 14:30	08/21/20 18:47	1
M2-6:2 FTS	90		25 - 150	08/20/20 14:30	08/21/20 18:47	1
M2-8:2 FTS	98		25 - 150	08/20/20 14:30	08/21/20 18:47	1

Lab Sample ID: LCS 200-158112/2-A
Matrix: Water
Analysis Batch: 158157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	45.7		ng/L		119	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	42.1		ng/L		111	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.1		ng/L		95	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	34.1		ng/L		85	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	44.0		ng/L		124	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	45.4		ng/L		113	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	45.6		ng/L		118	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	49.2		ng/L		123	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	42.1		ng/L		105	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	47.3		ng/L		124	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	48.4		ng/L		121	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	39.0		ng/L		107	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	44.5		ng/L		111	70 - 130
Perfluorononanoic acid (PFNA)	40.0	46.2		ng/L		115	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	44.7		ng/L		112	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	48.1		ng/L		130	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	44.6		ng/L		111	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	41.6		ng/L		104	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	44.2		ng/L		110	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	41.6		ng/L		104	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	47.1		ng/L		118	70 - 130

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

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFDA	93		50 - 150
13C2 PFDoA	96		50 - 150
13C2 PFHxA	99		50 - 150
13C2 PFUnA	92		50 - 150
13C2 PFTeDA	86		50 - 150
13C4 PFBA	101		25 - 150
13C4 PFOA	94		50 - 150
13C4 PFOS	86		50 - 150
13C4 PFHpA	92		50 - 150
13C5 PFNA	93		50 - 150
13C5 PFPeA	94		25 - 150
13C8 FOSA	62		25 - 150
18O2 PFHxS	96		50 - 150
d3-NMeFOSAA	89		50 - 150
d5-NEtFOSAA	92		50 - 150
M2-6:2 FTS	88		25 - 150
M2-8:2 FTS	86		25 - 150

Lab Sample ID: LCSD 200-158112/3-A
Matrix: Water
Analysis Batch: 158157

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 158112

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)			38.3	44.8		ng/L		117	50 - 150	2	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)			37.9	40.1		ng/L		106	50 - 150	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	42.1		ng/L		105	70 - 130	10	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	41.7		ng/L		104	70 - 130	20	20
Perfluorobutanesulfonic acid (PFBS)			35.4	41.8		ng/L		118	70 - 130	5	20
Perfluorobutanoic acid (PFBA)			40.0	44.8		ng/L		112	50 - 150	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	42.1		ng/L		109	50 - 150	8	30
Perfluorodecanoic acid (PFDA)			40.0	44.8		ng/L		112	70 - 130	9	20
Perfluorododecanoic acid (PFDoA)			40.0	42.6		ng/L		106	70 - 130	1	20
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	47.3		ng/L		124	50 - 150	0	30
Perfluoroheptanoic acid (PFHpA)			40.0	42.7		ng/L		107	70 - 130	12	20
Perfluorohexanesulfonic acid (PFHxS)			36.4	39.9		ng/L		110	70 - 130	2	20
Perfluorohexanoic acid (PFHxA)			40.0	44.5		ng/L		111	70 - 130	0	20
Perfluorononanoic acid (PFNA)			40.0	44.5		ng/L		111	70 - 130	4	20
Perfluorooctanesulfonamide (PFOSA)			40.0	47.4		ng/L		119	50 - 150	6	30
Perfluorooctanesulfonic acid (PFOS)			37.1	48.3		ng/L		130	70 - 130	0	20
Perfluorooctanoic acid (PFOA)			40.0	46.0		ng/L		115	70 - 130	3	20
Perfluoropentanoic acid (PFPeA)			40.0	44.2		ng/L		110	50 - 150	6	30
Perfluorotetradecanoic acid (PFTeA)			40.0	50.3		ng/L		126	70 - 130	13	20

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

Lab Sample ID: LCSD 200-158112/3-A
Matrix: Water
Analysis Batch: 158157

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 158112

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorotridecanoic acid (PFTriA)			40.0	43.6		ng/L		109	70 - 130	5	20
Perfluoroundecanoic acid (PFUnA)			40.0	47.4		ng/L		118	70 - 130	1	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C2 PFDA	*99*		*50 - 150*
13C2 PFDoA	*98*		*50 - 150*
13C2 PFHxA	*101*		*50 - 150*
13C2 PFUnA	*96*		*50 - 150*
13C2 PFTeDA	*84*		*50 - 150*
13C4 PFBA	*106*		*25 - 150*
13C4 PFOA	*100*		*50 - 150*
13C4 PFOS	*90*		*50 - 150*
13C4 PFHpA	*101*		*50 - 150*
13C5 PFNA	*94*		*50 - 150*
13C5 PFPeA	*99*		*25 - 150*
13C8 FOSA	*64*		*25 - 150*
18O2 PFHxS	*97*		*50 - 150*
d3-NMeFOSAA	*88*		*50 - 150*
d5-NEtFOSAA	*90*		*50 - 150*
M2-6:2 FTS	*89*		*25 - 150*
M2-8:2 FTS	*94*		*25 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-545977/1-A
Matrix: Water
Analysis Batch: 546629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 545977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/21/20 09:58	08/24/20 14:54	1
Antimony	ND		0.020	0.0068	mg/L		08/21/20 09:58	08/24/20 14:54	1
Arsenic	ND		0.015	0.0056	mg/L		08/21/20 09:58	08/24/20 14:54	1
Barium	ND	^	0.0020	0.00070	mg/L		08/21/20 09:58	08/24/20 14:54	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/20 09:58	08/24/20 14:54	1
Boron	ND		0.020	0.0040	mg/L		08/21/20 09:58	08/24/20 14:54	1
Cadmium	ND		0.0020	0.00050	mg/L		08/21/20 09:58	08/24/20 14:54	1
Calcium	ND		0.50	0.10	mg/L		08/21/20 09:58	08/24/20 14:54	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/20 09:58	08/24/20 14:54	1
Cobalt	ND		0.0040	0.00063	mg/L		08/21/20 09:58	08/24/20 14:54	1
Copper	ND		0.010	0.0016	mg/L		08/21/20 09:58	08/24/20 14:54	1
Iron	ND		0.050	0.019	mg/L		08/21/20 09:58	08/24/20 14:54	1
Lead	ND		0.010	0.0030	mg/L		08/21/20 09:58	08/24/20 14:54	1
Magnesium	ND		0.20	0.043	mg/L		08/21/20 09:58	08/24/20 14:54	1
Manganese	ND		0.0030	0.00040	mg/L		08/21/20 09:58	08/24/20 14:54	1
Nickel	ND		0.010	0.0013	mg/L		08/21/20 09:58	08/24/20 14:54	1
Potassium	ND		0.50	0.10	mg/L		08/21/20 09:58	08/24/20 14:54	1
Selenium	ND		0.025	0.0087	mg/L		08/21/20 09:58	08/24/20 14:54	1
Silver	ND		0.0060	0.0017	mg/L		08/21/20 09:58	08/24/20 14:54	1

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

Lab Sample ID: MB 480-545977/1-A
Matrix: Water
Analysis Batch: 546629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 545977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0	0.32	mg/L		08/21/20 09:58	08/24/20 14:54	1
Thallium	ND		0.020	0.010	mg/L		08/21/20 09:58	08/24/20 14:54	1
Vanadium	ND		0.0050	0.0015	mg/L		08/21/20 09:58	08/24/20 14:54	1
Zinc	ND		0.010	0.0015	mg/L		08/21/20 09:58	08/24/20 14:54	1

Lab Sample ID: LCS 480-545977/2-A
Matrix: Water
Analysis Batch: 546629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 545977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.89		mg/L		99	80 - 120
Antimony	0.200	0.203		mg/L		101	80 - 120
Arsenic	0.200	0.201		mg/L		100	80 - 120
Barium	0.200	0.214	^	mg/L		107	80 - 120
Beryllium	0.200	0.201		mg/L		100	80 - 120
Boron	0.200	0.195		mg/L		97	80 - 120
Cadmium	0.200	0.195		mg/L		98	80 - 120
Calcium	10.0	9.86		mg/L		99	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.200	0.190		mg/L		95	80 - 120
Copper	0.200	0.193		mg/L		97	80 - 120
Iron	10.0	9.72		mg/L		97	80 - 120
Lead	0.200	0.193		mg/L		97	80 - 120
Magnesium	10.0	9.65		mg/L		96	80 - 120
Manganese	0.200	0.195		mg/L		98	80 - 120
Nickel	0.200	0.192		mg/L		96	80 - 120
Potassium	10.0	9.28		mg/L		93	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0485		mg/L		97	80 - 120
Sodium	10.0	9.53		mg/L		95	80 - 120
Thallium	0.200	0.197		mg/L		98	80 - 120
Vanadium	0.200	0.198		mg/L		99	80 - 120
Zinc	0.200	0.203		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-546287/1-A
Matrix: Water
Analysis Batch: 546344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/20 12:37	08/21/20 15:56	1

Lab Sample ID: LCS 480-546287/2-A
Matrix: Water
Analysis Batch: 546344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546287

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00698		mg/L		105	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-546469/4
Matrix: Water
Analysis Batch: 546469

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			08/24/20 11:13	1
Chloride	ND		0.50	0.28	mg/L			08/24/20 11:13	1
Sulfate	ND		2.0	0.35	mg/L			08/24/20 11:13	1

Lab Sample ID: LCS 480-546469/3
Matrix: Water
Analysis Batch: 546469

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	48.25		mg/L		96	90 - 110
Sulfate	50.0	47.79		mg/L		96	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-546045/99
Matrix: Water
Analysis Batch: 546045

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			08/20/20 10:06	1

Lab Sample ID: LCS 480-546045/100
Matrix: Water
Analysis Batch: 546045

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	1.01		mg/L		101	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-546682/52
Matrix: Water
Analysis Batch: 546682

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			08/22/20 22:01	1

Lab Sample ID: LCS 480-546682/53
Matrix: Water
Analysis Batch: 546682

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	25.89		mg/L		104	90 - 110

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

Lab Sample ID: MB 480-546073/4
Matrix: Water
Analysis Batch: 546073

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			08/19/20 16:34	1

Lab Sample ID: LCS 480-546073/5
Matrix: Water
Analysis Batch: 546073

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	63.74		mg/L		106	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-546405/76
Matrix: Water
Analysis Batch: 546405

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			08/21/20 18:19	1

Lab Sample ID: MB 480-546405/98
Matrix: Water
Analysis Batch: 546405

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			08/21/20 20:56	1

Lab Sample ID: LCS 480-546405/77
Matrix: Water
Analysis Batch: 546405

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	98.80		mg/L		99	90 - 110

Lab Sample ID: LCS 480-546405/99
Matrix: Water
Analysis Batch: 546405

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	96.72		mg/L		97	90 - 110

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-546550/3
Matrix: Water
Analysis Batch: 546550

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total hardness as CaCO3	ND		2.0	0.53	mg/L			08/24/20 13:37	1

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: LCS 480-546550/4
Matrix: Water
Analysis Batch: 546550

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total hardness as CaCO3			242	244.0		mg/L		101	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-545904/1
Matrix: Water
Analysis Batch: 545904

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			08/19/20 16:40	1

Lab Sample ID: LCS 480-545904/2
Matrix: Water
Analysis Batch: 545904

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			502	501.0		mg/L		100	85 - 115		

GC/MS VOA

Analysis Batch: 546446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	8260C	
480-173952-4	8-MON-009-002-04	Total/NA	Water	8260C	
MB 480-546446/10	Method Blank	Total/NA	Water	8260C	
LCS 480-546446/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 545870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	3510C	
MB 480-545870/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-545870/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-545870/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 546301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-545870/1-A	Method Blank	Total/NA	Water	8270D SIM ID	545870
LCS 480-545870/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	545870
LCSD 480-545870/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	545870

Analysis Batch: 546349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	8270D SIM ID	545870

Prep Batch: 546427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	3510C	
MB 480-546427/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-546427/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 546675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	8270D_LL_PAH	546427
MB 480-546427/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	546427
LCS 480-546427/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	546427

LCMS

Prep Batch: 158112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	3535	
480-173952-2	8-MON-009-002-02	Total/NA	Water	3535	
480-173952-3	8-MON-009-002-03	Total/NA	Water	3535	
MB 200-158112/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-158112/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-158112/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 158157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	537 (modified)	158112
480-173952-2	8-MON-009-002-02	Total/NA	Water	537 (modified)	158112
480-173952-3	8-MON-009-002-03	Total/NA	Water	537 (modified)	158112

LCMS (Continued)

Analysis Batch: 158157 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 200-158112/1-A	Method Blank	Total/NA	Water	537 (modified)	158112
LCS 200-158112/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	158112
LCSD 200-158112/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	158112

Analysis Batch: 158190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	537 (modified)	158112
480-173952-2	8-MON-009-002-02	Total/NA	Water	537 (modified)	158112

Metals

Prep Batch: 545977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	3005A	
MB 480-545977/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-545977/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 546287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	7470A	
MB 480-546287/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-546287/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 546344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	7470A	546287
MB 480-546287/1-A	Method Blank	Total/NA	Water	7470A	546287
LCS 480-546287/2-A	Lab Control Sample	Total/NA	Water	7470A	546287

Analysis Batch: 546629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	6010C	545977
MB 480-545977/1-A	Method Blank	Total/NA	Water	6010C	545977
LCS 480-545977/2-A	Lab Control Sample	Total/NA	Water	6010C	545977

General Chemistry

Analysis Batch: 545904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	SM 2540C	
MB 480-545904/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-545904/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 546045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	350.1	
MB 480-546045/99	Method Blank	Total/NA	Water	350.1	
LCS 480-546045/100	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 546073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	9060A	

General Chemistry (Continued)

Analysis Batch: 546073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-546073/4	Method Blank	Total/NA	Water	9060A	
LCS 480-546073/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 546405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	SM 2320B	
MB 480-546405/76	Method Blank	Total/NA	Water	SM 2320B	
MB 480-546405/98	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-546405/77	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-546405/99	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 546469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	300.0	
MB 480-546469/4	Method Blank	Total/NA	Water	300.0	
LCS 480-546469/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 546550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	SM 2340C	
MB 480-546550/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-546550/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Analysis Batch: 546682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173952-1	8-MON-009-002-01	Total/NA	Water	410.4	
MB 480-546682/52	Method Blank	Total/NA	Water	410.4	
LCS 480-546682/53	Lab Control Sample	Total/NA	Water	410.4	

Lab Chronicle

Client: Parsons Corporation
Job ID: 480-173952-1
Project/Site: 8 MON-009 Lyndon Road LF

Client Sample ID: 8-MON-009-002-01
Lab Sample ID: 480-173952-1
Date Collected: 08/18/20 15:35
Matrix: Water
Date Received: 08/19/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	546446	08/24/20 12:59	CRL	TAL BUF
Total/NA	Prep	3510C			545870	08/19/20 14:47	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		10	546349	08/22/20 17:30	RJS	TAL BUF
Total/NA	Prep	3510C			546427	08/24/20 07:49	SMP	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	546675	08/26/20 09:09	PJQ	TAL BUF
Total/NA	Prep	3535			158112	08/20/20 14:30	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158157	08/21/20 21:41	BWC	TAL BUR
Total/NA	Prep	3535			158112	08/20/20 14:30	ND	TAL BUR
Total/NA	Analysis	537 (modified)		50	158190	08/24/20 16:18	BWC	TAL BUR
Total/NA	Prep	3005A			545977	08/21/20 09:58	ADM	TAL BUF
Total/NA	Analysis	6010C		1	546629	08/24/20 15:35	LMH	TAL BUF
Total/NA	Prep	7470A			546287	08/21/20 12:37	BMB	TAL BUF
Total/NA	Analysis	7470A		1	546344	08/21/20 16:07	BMB	TAL BUF
Total/NA	Analysis	300.0		10	546469	08/24/20 14:23	IMZ	TAL BUF
Total/NA	Analysis	350.1		10	546045	08/20/20 10:18	CLT	TAL BUF
Total/NA	Analysis	410.4		2	546682	08/22/20 22:01	CSS	TAL BUF
Total/NA	Analysis	9060A		1	546073	08/20/20 00:26	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	546405	08/21/20 22:47	BEF	TAL BUF
Total/NA	Analysis	SM 2340C		1	546550	08/24/20 13:37	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	545904	08/19/20 16:40	E1T	TAL BUF

Client Sample ID: 8-MON-009-002-02
Lab Sample ID: 480-173952-2
Date Collected: 08/18/20 16:00
Matrix: Water
Date Received: 08/19/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			158112	08/20/20 14:30	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158157	08/21/20 21:50	BWC	TAL BUR
Total/NA	Prep	3535			158112	08/20/20 14:30	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158190	08/24/20 16:26	BWC	TAL BUR

Client Sample ID: 8-MON-009-002-03
Lab Sample ID: 480-173952-3
Date Collected: 08/18/20 16:05
Matrix: Water
Date Received: 08/19/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			158112	08/20/20 14:30	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158157	08/21/20 21:58	BWC	TAL BUR

Lab Chronicle

Client: Parsons Corporation
Job ID: 480-173952-1
Project/Site: 8 MON-009 Lyndon Road LF

Client Sample ID: 8-MON-009-002-04
Lab Sample ID: 480-173952-4
Date Collected: 08/18/20 00:00
Matrix: Water
Date Received: 08/19/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	546446	08/24/20 13:22	CRL	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: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-173952-1

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	04-02-21

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
SM 2340C		Water	Total hardness as CaCO3

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	04-01-21

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)

Method Summary

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-173952-1

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
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 2340C	Hardness, Total (mg/l as CaC03)	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: Parsons Corporation
Job ID: 480-173952-1
Project/Site: 8 MON-009 Lyndon Road LF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-173952-1	8-MON-009-002-01	Water	08/18/20 15:35	08/19/20 08:00	
480-173952-2	8-MON-009-002-02	Water	08/18/20 16:00	08/19/20 08:00	
480-173952-3	8-MON-009-002-03	Water	08/18/20 16:05	08/19/20 08:00	
480-173952-4	8-MON-009-002-04	Water	08/18/20 00:00	08/19/20 08:00	

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information		Section B Client Information		COC #:	8-MoN-009-002
Lab Name:	TestAmerica	Company:	Parsons	Project Name:	ILI - Region 8
Attention:	John Schove	Attention:	George Moreau	Project Site:	Lyndon Road LF
Address:	10 Hazelwood Drive Amherst, NY 14228-2298	Address:	301 Plainfield Road, Suite 350 Syracuse, NY 13212	Project Number:	~~450619~~ 452148 AKS
Phone:	(716) 504-9838	Phone:	315-552-9715		
Email:	John.Schove@testamericainc.com	Email:	George.H.Moreau@parsons.com		

Section C Deliverable Requirements		Purchase Order No:
Report To:	George.H.Moreau@parsons.com	TAT - 10 Day
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	

Preservative codes (for water only): 0 | 1 | 0 | 0 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | | 2

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.	MS/MSD	Composite (Y/N)	PFAS Modified 537	Modified Baseline VOCs 8260	PAHs 8270SIM	1,4 - Dioxane 8270SIM	Mod Bsln Met/Hg 6010/7470	Hard-SM20 2340C	Ammonia/COD 350.1/410.4	TOC 9060A	SO4/CHL/BRO 300.0	TDS SM2540D	Alkalinity SM20 2320B		Dissolved Mod Metals/Hg 6010/7470
	#Bottles											2	3	2	2	1	-	1	2	1	1	1		1
1	8-MoN-009-MW-02	10	15	8-MoN-009-002-01	8/18/20	1535	WG	N	17			1	1	1	1	1	1	1	1	1	1	1		
2	Field QC	-	-	8-MoN-009-002-02	8/18/20	16:00	WQ	EB	2			1												
3	Field QC	-	-	8-MoN-009-002-03	8/18/20	16:05	WQ	FB	2			1												
4	~~Field QC~~ Field QC	-	-	8 MoN-009-002-04	8/18/20	-	WG	TB	1				1											
5																								
6																								
7	8-18-20 RE																							
8																								
9																								
10																								

480-173952 Chain of Custody

Syracuse #225

Special Instructions:

From Syr: PFAS → Bot; bal → BUF - RE

Samplers Name:	Aditya Singh	Company:	Parsons	Relinquished By:	A Singh	Company:	Parsons	Cooler Temp.:		Custody Seals Intact: Yes ☐ No ☐
		Date/Time:	08/18/20 16:10			Date/Time:	08/18/20 17:45	Rec'd on Ice: Yes ☐ No ☐		Samples Intact : Yes ☐ No ☐
Shipment Method:		Shipment Tracking No:		Accepted By:		Company:	ES SXC	Cooler Temp.:		Custody Seals Intact: Yes ☐ No ☐
		Date/Time:				Date/Time:	8/18/20 1795	Rec'd on Ice: Yes ☐ No ☐		Samples Intact: Yes ☐ No ☐

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):

Reling.: R. English, Syr, 8-18-20, 1900, ES TAB 8/19/20 0800

3.3 #1

8/27/2020

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information		Section B Client Information			
Lab Name:	TestAmerica	Company: Parsons		COC #:	8-MoN-009-002
Attention:	John Schove	Attention: George Moreau		Project Name:	ILI - Region 8
Address:	10 Hazelwood Drive Amherst, NY 14228-2298	Address:	301 Plainfield Road, Suite 350 Syracuse, NY 13212	Project Site:	Lyndon Road LF
Phone:	(716) 504-9838	Phone:	315-552-9715	Project Number:	~~450619~~ 452148 AKS
Email:	John.Schove@testamericainc.com	Email:	George.H.Moreau@parsons.com		

Section C Deliverable Requirements		Section D Additional Information
Report To:	George.H.Moreau@parsons.com	Purchase Order No:
Copy To:	Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com Maryanne.Kosciewicz@parsons.com; Heather.Fettig@parsons.com	TAT - 10 Day
Deliverables:	Level 2, CAT B Report, NYSDEC EQUIS EDD	

Preservative codes (for water only):

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.	MS/MSD	Composite (Y/N)	PFAS Modified 537	Modified Baseline VOCs 8260	PAHs 8270SIM	1, 4 - Dioxane 8270SIM	Mod Bsln Met/Hg 6010/7470	Hard-SM20 2340C	Ammonia/COD 350.1/410.4	TOC 9060A	SO4/CHL/BRO 300.0	TDS SM2540D	Alkalinity SM20 2320B		Dissolved Mod Metals/Hg 6010/7470
											Preservative:	0	1	0	0	2	2	3	1	0	0	0		2
										#Bottles		2	3	2	2	1	-	1	2	1	1	1		1
1	8-MoN-009-MW-02	10	15	8-MoN-009-002-01	8/18/20	1535	WG	N	17			1	1	1	1	1	1	1	1	1	1	1		
2	Field QC	-	-	8-MoN-009-002-02	8/18/20	16:00	WQ	EB	2			1												
3	Field QC	-	-	8-MoN-009-002-03	8/18/20	16:05	WQ	FB	2			1												
4	~~Field QC~~ Field QC	-	-	8-MON-009-002-04	8/18/20	-	WQ	TB	1				1											
5																								
6																								
7	8-18-20 RE																							
8																								
9																								
10																								

480-173952 Chain of Custody

Syracuse #225

Special Instructions:

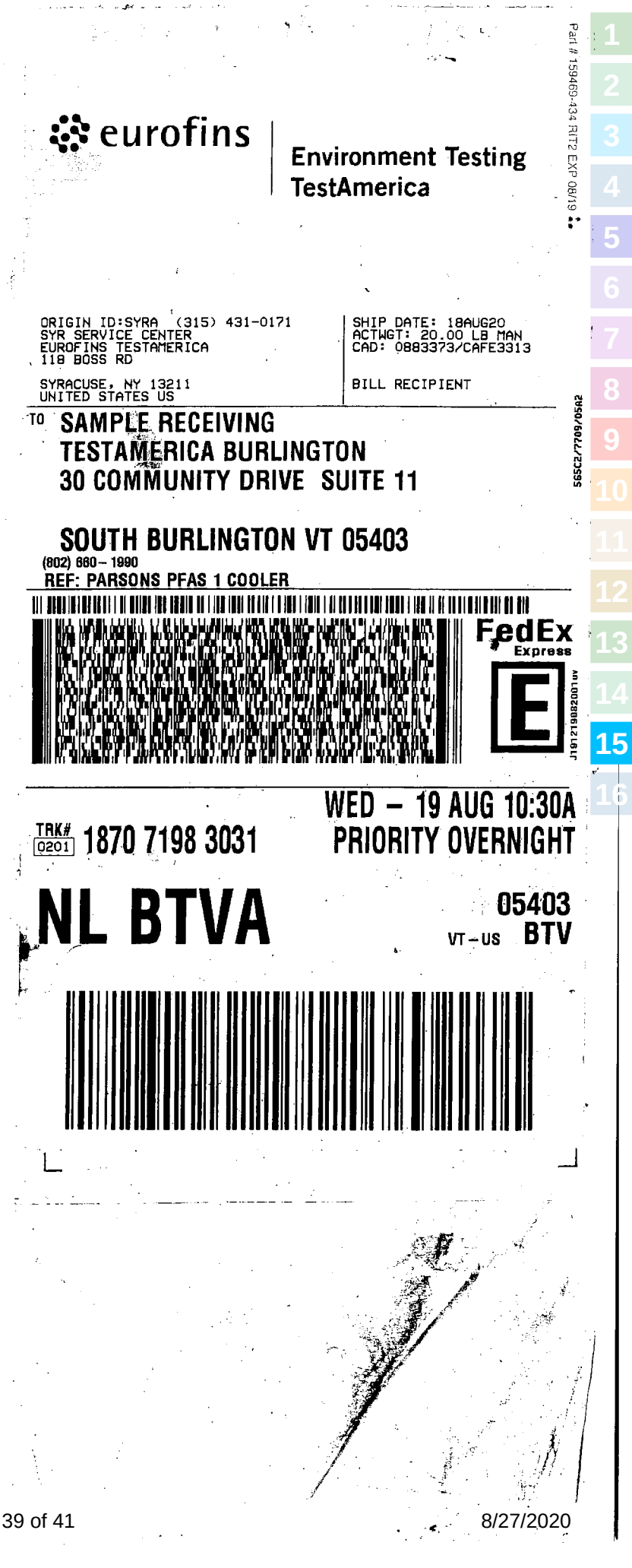
From Syr: PFAS → Bet; bal → Buf - RE

Samplers Name: Aditya Singh	Company: Parsons Date/Time: 08/18/20 16:10	Relinquished By: A Singh	Company: Parsons Date/Time: 08/18/20 17:45
Shipment Method:	Shipment Tracking No: Date/Time:	Accepted By: [signature]	Company: ES-Syr Date/Time: 8/18/20 1745

Cooler Temp.:	Custody Seals Intact: Yes ☐ No ☐
Rec'd on Ice: Yes ☐ No ☐	Samples Intact : Yes ☐ No ☐
Cooler Temp.:	Custody Seals Intact: Yes ☐ No ☐
Rec'd on Ice: Yes ☐ No ☐	Samples Intact: Yes ☐ No ☐

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):

Reling.: R. English, Syr, 8-18-20, 1900, [signature] 8/19/2020 10:55



eurofins | Environment Testing TestAmerica

Part # 159469-434 REV2 EXP 08/19

ORIGIN ID:SYRA (315) 431-0171
SYR SERVICE CENTER
EUROFINS TESTAMERICA
118 BOSS RD

SYRACUSE, NY 13211
UNITED STATES US

SHIP DATE: 18AUG20
ACTWGT: 20.00 LB MAN
CAD: 0883373/CAFE3313

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE SUITE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: PARSONS PFAS 1 COOLER

FedEx Express

WED - 19 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 1870 7198 3031

NL BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-173952-1

Login Number: 173952

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

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	PARSONS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-173952-1

Login Number: 173952
List Number: 2
Creator: Jaffe, Nat S

List Source: Eurofins TestAmerica, Burlington
List Creation: 08/19/20 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	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	2.3ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-174019-1
Client Project/Site: 8 MON-009 Lyndon Road LF

For:
Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

Attn: Mr. George Moreau

Joseph V. Giacomazza

Authorized for release by:
9/1/2020 9:37:19 AM

Joe Giacomazza, Project Manager I
(716)691-2600
joe.giacomazza@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

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.
F2	MS/MSD RPD exceeds control limits
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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
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.
F1	MS and/or MSD recovery exceeds control 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.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-174019-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-174019-1

Comments
No additional comments.

Receipt
The samples were received on 8/20/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.2º C, 3.6º C and 4.1º C.

GC/MS VOA
Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: 8-MON-009-003-01 (480-174019-1), 8-MON-009-003-01 (480-174019-1[MS]), 8-MON-009-003-01 (480-174019-1[MSD]), 8-MON-009-003-02 (480-174019-2) and 8-MON-009-003-03 (480-174019-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: 8-MON-009-003-01 (480-174019-1), 8-MON-009-003-01 (480-174019-1[MS]), 8-MON-009-003-01 (480-174019-1[MSD]), 8-MON-009-003-02 (480-174019-2) and 8-MON-009-003-03 (480-174019-3). 480-174019-1 , MS/MSD and 480-174019-2 pH are 5 , 480-174019-3 pH is 7.

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

GC/MS Semi VOA
Method 8270D SIM ID: The 1,4-Dioxane result reported for samples 8-MON-009-003-01 (480-174019-1), 8-MON-009-003-02 (480-174019-2) and 8-MON-009-003-03 (480-174019-3) 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.

Method 8270D_LL_PAH: The method blank for preparation batch 480-546427 contained Phenanthrene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound or were below client reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8270D_LL_PAH: The following compound has been spiked at a level above the upper range of the initial calibration: Dibenz(a,h)anthracene. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-546427 and analytical batch 480-546675 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-546427/2-A)

Method 8270D_LL_PAH: The following compound has been spiked at a level above the upper range of the initial calibration: Dibenz(a,h)anthracene. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-546928 and analytical batch 480-547071 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-546928/2-A)

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 samples were diluted to bring the concentration of target analytes within the calibration range: 8-MON-009-003-01 (480-174019-1), 8-MON-009-003-02 (480-174019-2) and 8-MON-009-003-03 (480-174019-3). Elevated reporting limits (RLs) are provided.

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

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a

Job ID: 480-174019-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. 8-MON-009-003-03 (480-174019-3), (LCS 480-546227/2-A), (LCSD 480-546227/3-A) and (MB 480-546227/1-A)

Method 6010C: The low level continuing calibration verification (CCVL 480-546628/29) recovered above the upper control limit for Total Manganese. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCS 480-546227/2-A), (LCSD 480-546227/3-A) and (MB 480-546227/1-A) was not performed.

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. 8-MON-009-003-01 (480-174019-1), 8-MON-009-003-01 (480-174019-1[MS]), 8-MON-009-003-01 (480-174019-1[MSD]), 8-MON-009-003-02 (480-174019-2), (LCS 480-546229/2-A), (MB 480-546229/1-A), (480-174019-G-1-A PDS) and (480-174019-G-1-A SD ^5)

Method 6010C: The recovery of post spike, (480-174019-G-1-A PDS), associated with batch 480-546633, exhibited results outside quality control limits for Total Boron and Barium. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

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

LCMS

Method 537 (modified): The method blank for preparation batch 200-158246 and analytical batch 200-158290 contained Perfluorobutanesulfonic acid (PFBS) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 200-158246 and analytical batch 200-158290 was outside control limits for Perfluoroundecanoic acid (PFUnA) and N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA). Sample matrix interference and/or non-homogeneity are suspected.

Method 537 (modified): Results for samples 8-MON-009-003-01 (480-174019-1), 8-MON-009-003-01 (480-174019-1[MS]), 8-MON-009-003-01 (480-174019-1[MSD]), 8-MON-009-003-02 (480-174019-2) and 8-MON-009-003-03 (480-174019-3) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

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

General Chemistry

Method 9060A: The reference method requires samples to be preserved to a pH below two. The following sample was received with insufficient preservation at a pH above two: 8-MON-009-003-03 (480-174019-3). The sample(s) was preserved to the appropriate pH in the laboratory prior to analysis.

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8-MON-009-003-01 (480-174019-1) and 8-MON-009-003-02 (480-174019-2). The reporting limits (RLs) have been adjusted proportionately.

Method 9060A: The reference method requires samples to be preserved to a pH below two. The following samples were received with insufficient preservation at a pH above two: 8-MON-009-003-01 (480-174019-1), 8-MON-009-003-01 (480-174019-1[MS]), 8-MON-009-003-01 (480-174019-1[MSD]) and 8-MON-009-003-02 (480-174019-2). The sample(s) was preserved to the appropriate pH in the laboratory prior to analysis.

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: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

Client Sample ID: 8-MON-009-003-01

Lab Sample ID: 480-174019-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.2	E	0.19	0.097	ug/L	1		8270D SIM ID	Total/NA
Acenaphthene	2.8		0.50	0.30	ug/L	1		8270D_LL_PAH	Total/NA
Fluorene	1.0		0.50	0.37	ug/L	1		8270D_LL_PAH	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38	F2	18	1.3	ng/L	1		537 (modified)	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	6.3	J	18	1.5	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	99	B	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.0		1.8	0.68	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	13		1.8	0.84	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	190		1.8	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	180		1.8	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	200		1.8	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	10		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	290		1.8	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	100		1.8	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	330		180	89	ng/L	100		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	4800		180	72	ng/L	100		537 (modified)	Total/NA
Barium	1.7	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	1.9	B	0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	269		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0018	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0019	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	3.5		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0034	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	177		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.54		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	40.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	153		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	252		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	4.2	J	20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	7.5		0.10	0.045	mg/L	5		350.1	Total/NA
Chemical Oxygen Demand	100	F1	10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	30.7		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	1540		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	1400		10.0	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	1470		20.0	8.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 8-MON-009-003-02

Lab Sample ID: 480-174019-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.4	E	0.19	0.095	ug/L	1		8270D SIM ID	Total/NA
Acenaphthene	3.1		0.50	0.30	ug/L	1		8270D_LL_PAH	Total/NA
Fluorene	1.1		0.50	0.37	ug/L	1		8270D_LL_PAH	Total/NA
Phenanthrene	0.44	J B	0.50	0.38	ug/L	1		8270D_LL_PAH	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	41		18	1.4	ng/L	1		537 (modified)	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	8.4	J	18	1.5	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	100	B	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.3	J	1.8	0.69	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 8-MON-009-003-02 (Continued)

Lab Sample ID: 480-174019-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanesulfonic Acid (PFHpS)	11		1.8	0.86	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	200		1.8	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	180		1.8	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	210		1.8	0.68	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	9.3		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	240		1.8	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	99		1.8	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	440		180	90	ng/L	100		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	6000		180	73	ng/L	100		537 (modified)	Total/NA
Barium	1.8	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	2.0	B	0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	276		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0023	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	3.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	181		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.55		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	40.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	159		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	238		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	5.8	J	20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	8.3		0.10	0.045	mg/L	5		350.1	Total/NA
Chemical Oxygen Demand	93.4		10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	31.3		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	1490		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	1450		10.0	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	3860		40.0	16.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 8-MON-009-003-03

Lab Sample ID: 480-174019-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	6.0		4.0	3.0	ug/L	4		8260C	Total/NA
1,4-Dioxane	2.0	E	0.19	0.095	ug/L	1		8270D SIM ID	Total/NA
Acenaphthene	0.41	J	0.50	0.30	ug/L	1		8270D_LL_PAH	Total/NA
Phenanthrene	1.2		0.50	0.38	ug/L	1		8270D_LL_PAH	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.5	J	17	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	24	B	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.84	J	1.7	0.66	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	5.5		1.7	0.81	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	94		1.7	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	43		1.7	0.68	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	140		1.7	0.65	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.6		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	200		1.7	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	130		1.7	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	320		8.6	4.3	ng/L	5		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	740		8.6	3.5	ng/L	5		537 (modified)	Total/NA
Aluminum	0.64		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.27	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	1.3		0.020	0.0040	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 8-MON-009-003-03 (Continued)

Lab Sample ID: 480-174019-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	438		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0026	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0032	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	18.3		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	137		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.55		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0014	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	18.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	78.6		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0045	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0048	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Chloride	98.8		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	315		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	4.0		0.040	0.018	mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	91.2		10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	28.7		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	1500		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	1840		20.0	5.3	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	600		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 8-MON-009-003-04

Lab Sample ID: 480-174019-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.51	J B	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.82	J	1.8	0.68	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.54	J	1.8	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.76	J	1.8	0.56	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 8-MON-009-003-05

Lab Sample ID: 480-174019-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.47	J B	1.9	0.46	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 8-MON-009-003-06

Lab Sample ID: 480-174019-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

Client Sample ID: 8-MON-009-003-01
Date Collected: 08/19/20 10:10
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-1
Matrix: Water

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		4.0	1.4	ug/L			08/24/20 12:50	4
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			08/24/20 12:50	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			08/24/20 12:50	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			08/24/20 12:50	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			08/24/20 12:50	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			08/24/20 12:50	4
1,2,3-Trichloropropane	ND		4.0	3.6	ug/L			08/24/20 12:50	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			08/24/20 12:50	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			08/24/20 12:50	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			08/24/20 12:50	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			08/24/20 12:50	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			08/24/20 12:50	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			08/24/20 12:50	4
2-Butanone (MEK)	ND		40	5.3	ug/L			08/24/20 12:50	4
2-Hexanone	ND		20	5.0	ug/L			08/24/20 12:50	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			08/24/20 12:50	4
Acetone	ND		40	12	ug/L			08/24/20 12:50	4
Acrylonitrile	ND		20	3.3	ug/L			08/24/20 12:50	4
Benzene	ND		4.0	1.6	ug/L			08/24/20 12:50	4
Bromodichloromethane	ND		4.0	1.6	ug/L			08/24/20 12:50	4
Bromoform	ND		4.0	1.0	ug/L			08/24/20 12:50	4
Bromomethane	ND		4.0	2.8	ug/L			08/24/20 12:50	4
Carbon disulfide	ND		4.0	0.76	ug/L			08/24/20 12:50	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			08/24/20 12:50	4
Chlorobenzene	ND		4.0	3.0	ug/L			08/24/20 12:50	4
Chlorobromomethane	ND		4.0	3.5	ug/L			08/24/20 12:50	4
Chloroethane	ND		4.0	1.3	ug/L			08/24/20 12:50	4
Chloroform	ND		4.0	1.4	ug/L			08/24/20 12:50	4
Chloromethane	ND		4.0	1.4	ug/L			08/24/20 12:50	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			08/24/20 12:50	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			08/24/20 12:50	4
Dibromochloromethane	ND		4.0	1.3	ug/L			08/24/20 12:50	4
Dibromomethane	ND		4.0	1.6	ug/L			08/24/20 12:50	4
Ethylbenzene	ND		4.0	3.0	ug/L			08/24/20 12:50	4
Iodomethane	ND		4.0	1.2	ug/L			08/24/20 12:50	4
m,p-Xylene	ND		8.0	2.6	ug/L			08/24/20 12:50	4
Methylene Chloride	ND		4.0	1.8	ug/L			08/24/20 12:50	4
o-Xylene	ND		4.0	3.0	ug/L			08/24/20 12:50	4
Styrene	ND		4.0	2.9	ug/L			08/24/20 12:50	4
Tetrachloroethene	ND		4.0	1.4	ug/L			08/24/20 12:50	4
Toluene	ND		4.0	2.0	ug/L			08/24/20 12:50	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			08/24/20 12:50	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			08/24/20 12:50	4
trans-1,4-Dichloro-2-butene	ND	F1	4.0	0.88	ug/L			08/24/20 12:50	4
Trichloroethene	ND		4.0	1.8	ug/L			08/24/20 12:50	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			08/24/20 12:50	4
Vinyl acetate	ND		20	3.4	ug/L			08/24/20 12:50	4
Vinyl chloride	ND		4.0	3.6	ug/L			08/24/20 12:50	4
Xylenes, Total	ND		8.0	2.6	ug/L			08/24/20 12:50	4

Client Sample ID: 8-MON-009-003-01
Date Collected: 08/19/20 10:10
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*08/24/20 12:50*	*4*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/24/20 12:50*	*4*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/24/20 12:50*	*4*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/24/20 12:50*	*4*

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	**2.2**	**E**	0.19	0.097	ug/L		08/21/20 08:30	08/22/20 20:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*08/21/20 08:30*	*08/22/20 20:10*	*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	**2.8**		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 08:41	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/24/20 07:49	08/26/20 08:41	1
Anthracene	ND		0.50	0.39	ug/L		08/24/20 07:49	08/26/20 08:41	1
Benzo[a]anthracene	ND	F1	0.50	0.40	ug/L		08/24/20 07:49	08/26/20 08:41	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 08:41	1
Benzo[b]fluoranthene	ND	F1	0.50	0.30	ug/L		08/24/20 07:49	08/26/20 08:41	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 08:41	1
Benzo[k]fluoranthene	ND	F1	0.50	0.085	ug/L		08/24/20 07:49	08/26/20 08:41	1
Chrysene	ND	F1	0.50	0.32	ug/L		08/24/20 07:49	08/26/20 08:41	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 08:41	1
Fluoranthene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 08:41	1
Fluorene	**1.0**		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 08:41	1
Indeno[1,2,3-cd]pyrene	ND	F1	0.50	0.44	ug/L		08/24/20 07:49	08/26/20 08:41	1
Naphthalene	ND		0.50	0.42	ug/L		08/24/20 07:49	08/26/20 08:41	1
Phenanthrene	ND		0.50	0.38	ug/L		08/24/20 07:49	08/26/20 08:41	1
Pyrene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*48 - 120*	*08/24/20 07:49*	*08/26/20 08:41*	*1*
Nitrobenzene-d5	*83*		*46 - 120*	*08/24/20 07:49*	*08/26/20 08:41*	*1*
p-Terphenyl-d14	*39*		*24 - 136*	*08/24/20 07:49*	*08/26/20 08:41*	*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	2.6	ng/L		08/25/20 16:17	08/26/20 20:58	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.9	ng/L		08/25/20 16:17	08/26/20 20:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**38**	**F2**	18	1.3	ng/L		08/25/20 16:17	08/26/20 20:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**6.3**	**J**	18	1.5	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorobutanesulfonic acid (PFBS)	**99**	**B**	1.8	0.43	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.80	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorodecanoic acid (PFDA)	**2.0**		1.8	0.68	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	**13**		1.8	0.84	ng/L		08/25/20 16:17	08/26/20 20:58	1

Client Sample ID: 8-MON-009-003-01
Date Collected: 08/19/20 10:10
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**190**		1.8	0.81	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorohexanesulfonic acid (PFHxS)	**180**		1.8	0.71	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorohexanoic acid (PFHxA)	**200**		1.8	0.67	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorononanoic acid (PFNA)	**10**		1.8	0.24	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.9	8.9	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorooctanesulfonic acid (PFOS)	**290**		1.8	0.54	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluoropentanoic acid (PFPeA)	**100**		1.8	0.56	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		08/25/20 16:17	08/26/20 20:58	1
Perfluoroundecanoic acid (PFUnA)	ND	F2	1.8	0.69	ng/L		08/25/20 16:17	08/26/20 20:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*84*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
13C2 PFDoA	*77*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
13C2 PFHxA	*86*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
13C2 PFUnA	*83*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
13C2 PFTeDA	*74*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
13C4 PFOS	*64*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
13C4 PFHpA	*86*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
13C5 PFNA	*89*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
13C5 PFPeA	*74*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
13C8 FOSA	*58*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
18O2 PFHxS	*83*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
d3-NMeFOSAA	*86*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
d5-NEtFOSAA	*91*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
M2-6:2 FTS	*99*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*
M2-8:2 FTS	*104*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**330**		180	89	ng/L		08/25/20 16:17	08/27/20 14:12	100
Perfluorooctanoic acid (PFOA)	**4800**		180	72	ng/L		08/25/20 16:17	08/27/20 14:12	100

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*112*		*25 - 150*	*08/25/20 16:17*	*08/27/20 14:12*	*100*
13C4 PFOA	*88*		*50 - 150*	*08/25/20 16:17*	*08/27/20 14:12*	*100*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/24/20 09:13	08/24/20 23:55	1
Antimony	ND		0.020	0.0068	mg/L		08/24/20 09:13	08/24/20 23:55	1
Arsenic	ND		0.015	0.0056	mg/L		08/24/20 09:13	08/24/20 23:55	1
Barium	**1.7**	**^**	0.0020	0.00070	mg/L		08/24/20 09:13	08/24/20 23:55	1
Beryllium	ND		0.0020	0.00030	mg/L		08/24/20 09:13	08/24/20 23:55	1
Boron	**1.9**	**B**	0.020	0.0040	mg/L		08/24/20 09:13	08/24/20 23:55	1
Cadmium	ND		0.0020	0.00050	mg/L		08/24/20 09:13	08/24/20 23:55	1
Calcium	**269**		0.50	0.10	mg/L		08/24/20 09:13	08/24/20 23:55	1
Chromium	**0.0018**	**J**	0.0040	0.0010	mg/L		08/24/20 09:13	08/24/20 23:55	1
Cobalt	ND		0.0040	0.00063	mg/L		08/24/20 09:13	08/24/20 23:55	1
Copper	**0.0019**	**J**	0.010	0.0016	mg/L		08/24/20 09:13	08/24/20 23:55	1

Client Sample ID: 8-MON-009-003-01
Lab Sample ID: 480-174019-1

Date Collected: 08/19/20 10:10
Matrix: Water
Date Received: 08/20/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.5**		0.050	0.019	mg/L		08/24/20 09:13	08/24/20 23:55	1
Lead	**0.0034**	**J**	0.010	0.0030	mg/L		08/24/20 09:13	08/24/20 23:55	1
Magnesium	**177**		0.20	0.043	mg/L		08/24/20 09:13	08/24/20 23:55	1
Manganese	**0.54**		0.0030	0.00040	mg/L		08/24/20 09:13	08/24/20 23:55	1
Nickel	ND		0.010	0.0013	mg/L		08/24/20 09:13	08/24/20 23:55	1
Potassium	**40.1**		0.50	0.10	mg/L		08/24/20 09:13	08/24/20 23:55	1
Selenium	ND		0.025	0.0087	mg/L		08/24/20 09:13	08/24/20 23:55	1
Silver	ND		0.0060	0.0017	mg/L		08/24/20 09:13	08/24/20 23:55	1
Sodium	**153**		1.0	0.32	mg/L		08/24/20 09:13	08/24/20 23:55	1
Thallium	ND		0.020	0.010	mg/L		08/24/20 09:13	08/24/20 23:55	1
Vanadium	ND		0.0050	0.0015	mg/L		08/24/20 09:13	08/24/20 23:55	1
Zinc	ND		0.010	0.0015	mg/L		08/24/20 09:13	08/24/20 23:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/24/20 13:08	08/24/20 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		2.0	0.73	mg/L			08/25/20 01:11	10
Chloride	**252**		5.0	2.8	mg/L			08/25/20 01:11	10
Sulfate	**4.2**	**J**	20.0	3.5	mg/L			08/25/20 01:11	10
Ammonia	**7.5**		0.10	0.045	mg/L			08/21/20 10:49	5
Chemical Oxygen Demand	**100**	**F1**	10.0	5.0	mg/L			08/27/20 21:24	1
Total Organic Carbon	**30.7**		1.0	0.43	mg/L			08/22/20 21:50	1
Alkalinity, Total	**1540**		5.0	0.79	mg/L			08/24/20 11:21	1
Total hardness as CaCO3	**1400**		10.0	2.6	mg/L			08/24/20 13:37	1
Total Dissolved Solids	**1470**		20.0	8.0	mg/L			08/20/20 18:01	1

Client Sample ID: 8-MON-009-003-02
Lab Sample ID: 480-174019-2

Date Collected: 08/19/20 10:15
Matrix: Water
Date Received: 08/20/20 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		4.0	1.4	ug/L			08/24/20 13:13	4
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			08/24/20 13:13	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			08/24/20 13:13	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			08/24/20 13:13	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			08/24/20 13:13	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			08/24/20 13:13	4
1,2,3-Trichloropropane	ND		4.0	3.6	ug/L			08/24/20 13:13	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			08/24/20 13:13	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			08/24/20 13:13	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			08/24/20 13:13	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			08/24/20 13:13	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			08/24/20 13:13	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			08/24/20 13:13	4
2-Butanone (MEK)	ND		40	5.3	ug/L			08/24/20 13:13	4
2-Hexanone	ND		20	5.0	ug/L			08/24/20 13:13	4

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

Client Sample ID: 8-MON-009-003-02
Date Collected: 08/19/20 10:15
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-2
Matrix: Water

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		20	8.4	ug/L			08/24/20 13:13	4
Acetone	ND		40	12	ug/L			08/24/20 13:13	4
Acrylonitrile	ND		20	3.3	ug/L			08/24/20 13:13	4
Benzene	ND		4.0	1.6	ug/L			08/24/20 13:13	4
Bromodichloromethane	ND		4.0	1.6	ug/L			08/24/20 13:13	4
Bromoform	ND		4.0	1.0	ug/L			08/24/20 13:13	4
Bromomethane	ND		4.0	2.8	ug/L			08/24/20 13:13	4
Carbon disulfide	ND		4.0	0.76	ug/L			08/24/20 13:13	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			08/24/20 13:13	4
Chlorobenzene	ND		4.0	3.0	ug/L			08/24/20 13:13	4
Chlorobromomethane	ND		4.0	3.5	ug/L			08/24/20 13:13	4
Chloroethane	ND		4.0	1.3	ug/L			08/24/20 13:13	4
Chloroform	ND		4.0	1.4	ug/L			08/24/20 13:13	4
Chloromethane	ND		4.0	1.4	ug/L			08/24/20 13:13	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			08/24/20 13:13	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			08/24/20 13:13	4
Dibromochloromethane	ND		4.0	1.3	ug/L			08/24/20 13:13	4
Dibromomethane	ND		4.0	1.6	ug/L			08/24/20 13:13	4
Ethylbenzene	ND		4.0	3.0	ug/L			08/24/20 13:13	4
Iodomethane	ND		4.0	1.2	ug/L			08/24/20 13:13	4
m,p-Xylene	ND		8.0	2.6	ug/L			08/24/20 13:13	4
Methylene Chloride	ND		4.0	1.8	ug/L			08/24/20 13:13	4
o-Xylene	ND		4.0	3.0	ug/L			08/24/20 13:13	4
Styrene	ND		4.0	2.9	ug/L			08/24/20 13:13	4
Tetrachloroethene	ND		4.0	1.4	ug/L			08/24/20 13:13	4
Toluene	ND		4.0	2.0	ug/L			08/24/20 13:13	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			08/24/20 13:13	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			08/24/20 13:13	4
trans-1,4-Dichloro-2-butene	ND		4.0	0.88	ug/L			08/24/20 13:13	4
Trichloroethene	ND		4.0	1.8	ug/L			08/24/20 13:13	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			08/24/20 13:13	4
Vinyl acetate	ND		20	3.4	ug/L			08/24/20 13:13	4
Vinyl chloride	ND		4.0	3.6	ug/L			08/24/20 13:13	4
Xylenes, Total	ND		8.0	2.6	ug/L			08/24/20 13:13	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*08/24/20 13:13*	*4*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*08/24/20 13:13*	*4*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*08/24/20 13:13*	*4*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/24/20 13:13*	*4*

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	**2.4**	**E**	0.19	0.095	ug/L		08/21/20 08:30	08/22/20 20:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*08/21/20 08:30*	*08/22/20 20:33*	*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	**3.1**		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 10:33	1

Client Sample ID: 8-MON-009-003-02
Date Collected: 08/19/20 10:15
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-2
Matrix: Water

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		08/24/20 07:49	08/26/20 10:33	1
Anthracene	ND		0.50	0.39	ug/L		08/24/20 07:49	08/26/20 10:33	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/24/20 07:49	08/26/20 10:33	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 10:33	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 10:33	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 10:33	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/24/20 07:49	08/26/20 10:33	1
Chrysene	ND		0.50	0.32	ug/L		08/24/20 07:49	08/26/20 10:33	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 10:33	1
Fluoranthene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 10:33	1
Fluorene	**1.1**		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 10:33	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/24/20 07:49	08/26/20 10:33	1
Naphthalene	ND		0.50	0.42	ug/L		08/24/20 07:49	08/26/20 10:33	1
Phenanthrene	**0.44**	**J B**	0.50	0.38	ug/L		08/24/20 07:49	08/26/20 10:33	1
Pyrene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*48 - 120*	*08/24/20 07:49*	*08/26/20 10:33*	*1*
Nitrobenzene-d5	*89*		*46 - 120*	*08/24/20 07:49*	*08/26/20 10:33*	*1*
p-Terphenyl-d14	*40*		*24 - 136*	*08/24/20 07:49*	*08/26/20 10:33*	*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		08/25/20 16:17	08/26/20 21:23	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	5.0	ng/L		08/25/20 16:17	08/26/20 21:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**41**		18	1.4	ng/L		08/25/20 16:17	08/26/20 21:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**8.4**	**J**	18	1.5	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorobutanesulfonic acid (PFBS)	**100**	**B**	1.8	0.44	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.81	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorodecanoic acid (PFDA)	**1.3**	**J**	1.8	0.69	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.53	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	**11**		1.8	0.86	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluoroheptanoic acid (PFHpA)	**200**		1.8	0.82	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorohexanesulfonic acid (PFHxS)	**180**		1.8	0.72	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorohexanoic acid (PFHxA)	**210**		1.8	0.68	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorononanoic acid (PFNA)	**9.3**		1.8	0.24	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.0	9.0	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorooctanesulfonic acid (PFOS)	**240**		1.8	0.55	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluoropentanoic acid (PFPeA)	**99**		1.8	0.57	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.83	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.54	ng/L		08/25/20 16:17	08/26/20 21:23	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.70	ng/L		08/25/20 16:17	08/26/20 21:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*92*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:23*	*1*

Client Sample ID: 8-MON-009-003-02
Date Collected: 08/19/20 10:15
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	80		50 - 150	08/25/20 16:17	08/26/20 21:23	1
13C2 PFHxA	80		50 - 150	08/25/20 16:17	08/26/20 21:23	1
13C2 PFUnA	76		50 - 150	08/25/20 16:17	08/26/20 21:23	1
13C2 PFTeDA	73		50 - 150	08/25/20 16:17	08/26/20 21:23	1
13C4 PFOS	73		50 - 150	08/25/20 16:17	08/26/20 21:23	1
13C4 PFHpA	84		50 - 150	08/25/20 16:17	08/26/20 21:23	1
13C5 PFNA	94		50 - 150	08/25/20 16:17	08/26/20 21:23	1
13C5 PFPeA	70		25 - 150	08/25/20 16:17	08/26/20 21:23	1
13C8 FOSA	57		25 - 150	08/25/20 16:17	08/26/20 21:23	1
18O2 PFHxS	81		50 - 150	08/25/20 16:17	08/26/20 21:23	1
d3-NMeFOSAA	73		50 - 150	08/25/20 16:17	08/26/20 21:23	1
d5-NEtFOSAA	84		50 - 150	08/25/20 16:17	08/26/20 21:23	1
M2-6:2 FTS	107		25 - 150	08/25/20 16:17	08/26/20 21:23	1
M2-8:2 FTS	104		25 - 150	08/25/20 16:17	08/26/20 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	440		180	90	ng/L		08/25/20 16:17	08/27/20 14:37	100
Perfluorooctanoic acid (PFOA)	6000		180	73	ng/L		08/25/20 16:17	08/27/20 14:37	100

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	89		25 - 150	08/25/20 16:17	08/27/20 14:37	100
13C4 PFOA	76		50 - 150	08/25/20 16:17	08/27/20 14:37	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/24/20 09:13	08/25/20 00:26	1
Antimony	ND		0.020	0.0068	mg/L		08/24/20 09:13	08/25/20 00:26	1
Arsenic	ND		0.015	0.0056	mg/L		08/24/20 09:13	08/25/20 00:26	1
Barium	1.8	^	0.0020	0.00070	mg/L		08/24/20 09:13	08/25/20 00:26	1
Beryllium	ND		0.0020	0.00030	mg/L		08/24/20 09:13	08/25/20 00:26	1
Boron	2.0	B	0.020	0.0040	mg/L		08/24/20 09:13	08/25/20 00:26	1
Cadmium	ND		0.0020	0.00050	mg/L		08/24/20 09:13	08/25/20 00:26	1
Calcium	276		0.50	0.10	mg/L		08/24/20 09:13	08/25/20 00:26	1
Chromium	0.0023	J	0.0040	0.0010	mg/L		08/24/20 09:13	08/25/20 00:26	1
Cobalt	ND		0.0040	0.00063	mg/L		08/24/20 09:13	08/25/20 00:26	1
Copper	ND		0.010	0.0016	mg/L		08/24/20 09:13	08/25/20 00:26	1
Iron	3.0		0.050	0.019	mg/L		08/24/20 09:13	08/25/20 00:26	1
Lead	ND		0.010	0.0030	mg/L		08/24/20 09:13	08/25/20 00:26	1
Magnesium	181		0.20	0.043	mg/L		08/24/20 09:13	08/25/20 00:26	1
Manganese	0.55		0.0030	0.00040	mg/L		08/24/20 09:13	08/25/20 00:26	1
Nickel	ND		0.010	0.0013	mg/L		08/24/20 09:13	08/25/20 00:26	1
Potassium	40.4		0.50	0.10	mg/L		08/24/20 09:13	08/25/20 00:26	1
Selenium	ND		0.025	0.0087	mg/L		08/24/20 09:13	08/25/20 00:26	1
Silver	ND		0.0060	0.0017	mg/L		08/24/20 09:13	08/25/20 00:26	1
Sodium	159		1.0	0.32	mg/L		08/24/20 09:13	08/25/20 00:26	1
Thallium	ND		0.020	0.010	mg/L		08/24/20 09:13	08/25/20 00:26	1
Vanadium	ND		0.0050	0.0015	mg/L		08/24/20 09:13	08/25/20 00:26	1
Zinc	ND		0.010	0.0015	mg/L		08/24/20 09:13	08/25/20 00:26	1

Client Sample ID: 8-MON-009-003-02

Lab Sample ID: 480-174019-2

Date Collected: 08/19/20 10:15

Matrix: Water

Date Received: 08/20/20 08:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/24/20 13:08	08/24/20 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		2.0	0.73	mg/L			08/25/20 03:32	10
Chloride	**238**		5.0	2.8	mg/L			08/25/20 03:32	10
Sulfate	**5.8**	**J**	20.0	3.5	mg/L			08/25/20 03:32	10
Ammonia	**8.3**		0.10	0.045	mg/L			08/21/20 10:52	5
Chemical Oxygen Demand	**93.4**		10.0	5.0	mg/L			08/27/20 21:24	1
Total Organic Carbon	**31.3**		1.0	0.43	mg/L			08/22/20 23:16	1
Alkalinity, Total	**1490**		5.0	0.79	mg/L			08/24/20 21:21	1
Total hardness as CaCO3	**1450**		10.0	2.6	mg/L			08/24/20 13:37	1
Total Dissolved Solids	**3860**		40.0	16.0	mg/L			08/20/20 18:01	1

Client Sample ID: 8-MON-009-003-03

Lab Sample ID: 480-174019-3

Date Collected: 08/19/20 15:30

Matrix: Water

Date Received: 08/20/20 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		4.0	1.4	ug/L			08/24/20 13:36	4
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			08/24/20 13:36	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			08/24/20 13:36	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			08/24/20 13:36	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			08/24/20 13:36	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			08/24/20 13:36	4
1,2,3-Trichloropropane	ND		4.0	3.6	ug/L			08/24/20 13:36	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			08/24/20 13:36	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			08/24/20 13:36	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			08/24/20 13:36	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			08/24/20 13:36	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			08/24/20 13:36	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			08/24/20 13:36	4
2-Butanone (MEK)	ND		40	5.3	ug/L			08/24/20 13:36	4
2-Hexanone	ND		20	5.0	ug/L			08/24/20 13:36	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			08/24/20 13:36	4
Acetone	ND		40	12	ug/L			08/24/20 13:36	4
Acrylonitrile	ND		20	3.3	ug/L			08/24/20 13:36	4
Benzene	ND		4.0	1.6	ug/L			08/24/20 13:36	4
Bromodichloromethane	ND		4.0	1.6	ug/L			08/24/20 13:36	4
Bromoform	ND		4.0	1.0	ug/L			08/24/20 13:36	4
Bromomethane	ND		4.0	2.8	ug/L			08/24/20 13:36	4
Carbon disulfide	ND		4.0	0.76	ug/L			08/24/20 13:36	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			08/24/20 13:36	4
Chlorobenzene	ND		4.0	3.0	ug/L			08/24/20 13:36	4
Chlorobromomethane	ND		4.0	3.5	ug/L			08/24/20 13:36	4
Chloroethane	ND		4.0	1.3	ug/L			08/24/20 13:36	4
Chloroform	ND		4.0	1.4	ug/L			08/24/20 13:36	4
Chloromethane	ND		4.0	1.4	ug/L			08/24/20 13:36	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			08/24/20 13:36	4

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

Client Sample ID: 8-MON-009-003-03
Date Collected: 08/19/20 15:30
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			08/24/20 13:36	4
Dibromochloromethane	ND		4.0	1.3	ug/L			08/24/20 13:36	4
Dibromomethane	ND		4.0	1.6	ug/L			08/24/20 13:36	4
Ethylbenzene	**6.0**		4.0	3.0	ug/L			08/24/20 13:36	4
Iodomethane	ND		4.0	1.2	ug/L			08/24/20 13:36	4
m,p-Xylene	ND		8.0	2.6	ug/L			08/24/20 13:36	4
Methylene Chloride	ND		4.0	1.8	ug/L			08/24/20 13:36	4
o-Xylene	ND		4.0	3.0	ug/L			08/24/20 13:36	4
Styrene	ND		4.0	2.9	ug/L			08/24/20 13:36	4
Tetrachloroethene	ND		4.0	1.4	ug/L			08/24/20 13:36	4
Toluene	ND		4.0	2.0	ug/L			08/24/20 13:36	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			08/24/20 13:36	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			08/24/20 13:36	4
trans-1,4-Dichloro-2-butene	ND		4.0	0.88	ug/L			08/24/20 13:36	4
Trichloroethene	ND		4.0	1.8	ug/L			08/24/20 13:36	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			08/24/20 13:36	4
Vinyl acetate	ND		20	3.4	ug/L			08/24/20 13:36	4
Vinyl chloride	ND		4.0	3.6	ug/L			08/24/20 13:36	4
Xylenes, Total	ND		8.0	2.6	ug/L			08/24/20 13:36	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*08/24/20 13:36*	*4*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*08/24/20 13:36*	*4*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*08/24/20 13:36*	*4*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/24/20 13:36*	*4*

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	**2.0**	**E**	0.19	0.095	ug/L		08/21/20 08:30	08/22/20 20:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*08/21/20 08:30*	*08/22/20 20:55*	*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	**0.41**	**J**	0.50	0.30	ug/L		08/26/20 14:52	08/27/20 23:09	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/26/20 14:52	08/27/20 23:09	1
Anthracene	ND		0.50	0.39	ug/L		08/26/20 14:52	08/27/20 23:09	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/26/20 14:52	08/27/20 23:09	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/26/20 14:52	08/27/20 23:09	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/26/20 14:52	08/27/20 23:09	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/26/20 14:52	08/27/20 23:09	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/26/20 14:52	08/27/20 23:09	1
Chrysene	ND		0.50	0.32	ug/L		08/26/20 14:52	08/27/20 23:09	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/26/20 14:52	08/27/20 23:09	1
Fluoranthene	ND		0.50	0.36	ug/L		08/26/20 14:52	08/27/20 23:09	1
Fluorene	ND		0.50	0.37	ug/L		08/26/20 14:52	08/27/20 23:09	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/26/20 14:52	08/27/20 23:09	1
Naphthalene	ND		0.50	0.42	ug/L		08/26/20 14:52	08/27/20 23:09	1
Phenanthrene	**1.2**		0.50	0.38	ug/L		08/26/20 14:52	08/27/20 23:09	1
Pyrene	ND		0.50	0.36	ug/L		08/26/20 14:52	08/27/20 23:09	1

Client Sample ID: 8-MON-009-003-03
Date Collected: 08/19/20 15:30
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		48 - 120	08/26/20 14:52	08/27/20 23:09	1
Nitrobenzene-d5	92		46 - 120	08/26/20 14:52	08/27/20 23:09	1
p-Terphenyl-d14	58		24 - 136	08/26/20 14:52	08/27/20 23:09	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	2.5	ng/L		08/25/20 16:17	08/26/20 21:31	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.7	ng/L		08/25/20 16:17	08/26/20 21:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**2.5**	**J**	17	1.3	ng/L		08/25/20 16:17	08/26/20 21:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorobutanesulfonic acid (PFBS)	**24**	**B**	1.7	0.42	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorodecanoic acid (PFDA)	**0.84**	**J**	1.7	0.66	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	**5.5**		1.7	0.81	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluoroheptanoic acid (PFHpA)	**94**		1.7	0.78	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorohexanesulfonic acid (PFHxS)	**43**		1.7	0.68	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorohexanoic acid (PFHxA)	**140**		1.7	0.65	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorononanoic acid (PFNA)	**5.6**		1.7	0.23	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.6	8.6	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorooctanesulfonic acid (PFOS)	**200**		1.7	0.52	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluoropentanoic acid (PFPeA)	**130**		1.7	0.54	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.51	ng/L		08/25/20 16:17	08/26/20 21:31	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.67	ng/L		08/25/20 16:17	08/26/20 21:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	106		50 - 150	08/25/20 16:17	08/26/20 21:31	1
13C2 PFDoA	95		50 - 150	08/25/20 16:17	08/26/20 21:31	1
13C2 PFHxA	93		50 - 150	08/25/20 16:17	08/26/20 21:31	1
13C2 PFUnA	104		50 - 150	08/25/20 16:17	08/26/20 21:31	1
13C2 PFTeDA	81		50 - 150	08/25/20 16:17	08/26/20 21:31	1
13C4 PFOS	86		50 - 150	08/25/20 16:17	08/26/20 21:31	1
13C4 PFHpA	95		50 - 150	08/25/20 16:17	08/26/20 21:31	1
13C5 PFNA	112		50 - 150	08/25/20 16:17	08/26/20 21:31	1
13C5 PFPeA	78		25 - 150	08/25/20 16:17	08/26/20 21:31	1
13C8 FOSA	68		25 - 150	08/25/20 16:17	08/26/20 21:31	1
18O2 PFHxS	89		50 - 150	08/25/20 16:17	08/26/20 21:31	1
d3-NMeFOSAA	95		50 - 150	08/25/20 16:17	08/26/20 21:31	1
d5-NEtFOSAA	99		50 - 150	08/25/20 16:17	08/26/20 21:31	1
M2-6:2 FTS	116		25 - 150	08/25/20 16:17	08/26/20 21:31	1
M2-8:2 FTS	93		25 - 150	08/25/20 16:17	08/26/20 21:31	1

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

Client Sample ID: 8-MON-009-003-03

Date Collected: 08/19/20 15:30
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	320		8.6	4.3	ng/L		08/25/20 16:17	08/27/20 14:45	5
Perfluorooctanoic acid (PFOA)	740		8.6	3.5	ng/L		08/25/20 16:17	08/27/20 14:45	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83*		*25 - 150*	*08/25/20 16:17*	*08/27/20 14:45*	*5*
13C4 PFOA	*99*		*50 - 150*	*08/25/20 16:17*	*08/27/20 14:45*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.64		0.20	0.060	mg/L		08/21/20 10:00	08/24/20 14:42	1
Antimony	ND		0.020	0.0068	mg/L		08/21/20 10:00	08/24/20 14:42	1
Arsenic	ND		0.015	0.0056	mg/L		08/21/20 10:00	08/24/20 14:42	1
Barium	0.27	^	0.0020	0.00070	mg/L		08/21/20 10:00	08/24/20 14:42	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/20 10:00	08/24/20 14:42	1
Boron	1.3		0.020	0.0040	mg/L		08/21/20 10:00	08/24/20 14:42	1
Cadmium	ND		0.0020	0.00050	mg/L		08/21/20 10:00	08/24/20 14:42	1
Calcium	438		0.50	0.10	mg/L		08/21/20 10:00	08/24/20 14:42	1
Chromium	0.0026	J	0.0040	0.0010	mg/L		08/21/20 10:00	08/24/20 14:42	1
Cobalt	ND		0.0040	0.00063	mg/L		08/21/20 10:00	08/24/20 14:42	1
Copper	0.0032	J	0.010	0.0016	mg/L		08/21/20 10:00	08/24/20 14:42	1
Iron	18.3		0.050	0.019	mg/L		08/21/20 10:00	08/24/20 14:42	1
Lead	ND		0.010	0.0030	mg/L		08/21/20 10:00	08/24/20 14:42	1
Magnesium	137		0.20	0.043	mg/L		08/21/20 10:00	08/24/20 14:42	1
Manganese	0.55		0.0030	0.00040	mg/L		08/21/20 10:00	08/24/20 14:42	1
Nickel	0.0014	J	0.010	0.0013	mg/L		08/21/20 10:00	08/24/20 14:42	1
Potassium	18.4		0.50	0.10	mg/L		08/21/20 10:00	08/24/20 14:42	1
Selenium	ND		0.025	0.0087	mg/L		08/21/20 10:00	08/24/20 14:42	1
Silver	ND		0.0060	0.0017	mg/L		08/21/20 10:00	08/24/20 14:42	1
Sodium	78.6		1.0	0.32	mg/L		08/21/20 10:00	08/24/20 14:42	1
Thallium	ND		0.020	0.010	mg/L		08/21/20 10:00	08/24/20 14:42	1
Vanadium	0.0045	J	0.0050	0.0015	mg/L		08/21/20 10:00	08/24/20 14:42	1
Zinc	0.0048	J	0.010	0.0015	mg/L		08/21/20 10:00	08/24/20 14:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/20 12:57	08/25/20 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		2.0	0.73	mg/L			08/25/20 03:47	10
Chloride	98.8		5.0	2.8	mg/L			08/25/20 03:47	10
Sulfate	315		20.0	3.5	mg/L			08/25/20 03:47	10
Ammonia	4.0		0.040	0.018	mg/L			08/21/20 10:53	2
Chemical Oxygen Demand	91.2		10.0	5.0	mg/L			08/27/20 21:24	1
Total Organic Carbon	28.7		1.0	0.43	mg/L			08/22/20 08:17	1
Alkalinity, Total	1500		5.0	0.79	mg/L			08/24/20 21:35	1
Total hardness as CaCO3	1840		20.0	5.3	mg/L			08/24/20 13:37	1
Total Dissolved Solids	600		10.0	4.0	mg/L			08/20/20 18:01	1

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

Client Sample ID: 8-MON-009-003-04
Date Collected: 08/19/20 16:00
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-4
Matrix: Water

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		08/25/20 16:17	08/26/20 21:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.9	ng/L		08/25/20 16:17	08/26/20 21:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.3	ng/L		08/25/20 16:17	08/26/20 21:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorobutanesulfonic acid (PFBS)	**0.51**	**J B**	1.8	0.44	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorobutanoic acid (PFBA)	ND		1.8	0.89	ng/L		08/25/20 16:17	08/27/20 14:54	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.80	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.68	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.84	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.81	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.71	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorohexanoic acid (PFHxA)	**0.82**	**J**	1.8	0.68	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.9	8.9	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorooctanesulfonic acid (PFOS)	**0.54**	**J**	1.8	0.54	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.72	ng/L		08/25/20 16:17	08/27/20 14:54	1
Perfluoropentanoic acid (PFPeA)	**0.76**	**J**	1.8	0.56	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.82	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		08/25/20 16:17	08/26/20 21:39	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.69	ng/L		08/25/20 16:17	08/26/20 21:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*101*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
13C2 PFDoA	*83*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
13C2 PFHxA	*101*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
13C2 PFUnA	*91*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
13C2 PFTeDA	*78*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
13C4 PFBA	*117*		*25 - 150*	*08/25/20 16:17*	*08/27/20 14:54*	*1*
13C4 PFOA	*101*		*50 - 150*	*08/25/20 16:17*	*08/27/20 14:54*	*1*
13C4 PFOS	*89*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
13C4 PFHpA	*101*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
13C5 PFNA	*96*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
13C5 PFPeA	*101*		*25 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
13C8 FOSA	*70*		*25 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
18O2 PFHxS	*92*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
d3-NMeFOSAA	*81*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
d5-NEtFOSAA	*76*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
M2-6:2 FTS	*90*		*25 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*
M2-8:2 FTS	*100*		*25 - 150*	*08/25/20 16:17*	*08/26/20 21:39*	*1*

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

Client Sample ID: 8-MON-009-003-05
Date Collected: 08/19/20 16:05
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-5
Matrix: Water

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		19	2.7	ng/L		08/25/20 16:17	08/26/20 21:48	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		19	5.2	ng/L		08/25/20 16:17	08/26/20 21:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19	1.4	ng/L		08/25/20 16:17	08/26/20 21:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19	1.6	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorobutanesulfonic acid (PFBS)	**0.47**	**J B**	1.9	0.46	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorobutanoic acid (PFBA)	ND		1.9	0.94	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.84	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.72	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.55	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.89	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.85	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.75	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.71	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.25	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.4	9.4	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.57	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.76	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.59	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.86	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.56	ng/L		08/25/20 16:17	08/26/20 21:48	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.73	ng/L		08/25/20 16:17	08/26/20 21:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*93*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C2 PFDoA	*81*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C2 PFHxA	*106*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C2 PFUnA	*91*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C2 PFTeDA	*76*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C4 PFBA	*108*		*25 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C4 PFOA	*93*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C4 PFOS	*82*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C4 PFHpA	*103*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C5 PFNA	*95*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C5 PFPeA	*101*		*25 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
13C8 FOSA	*59*		*25 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
18O2 PFHxS	*95*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
d3-NMeFOSAA	*85*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
d5-NEtFOSAA	*77*		*50 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
M2-6:2 FTS	*90*		*25 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*
M2-8:2 FTS	*96*		*25 - 150*	*08/25/20 16:17*	*08/26/20 21:48*	*1*

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

Client Sample ID: 8-MON-009-003-06
Date Collected: 08/19/20 00:00
Date Received: 08/20/20 08:00

Lab Sample ID: 480-174019-6
Matrix: Water

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			08/24/20 13:59	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/20 13:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/20 13:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/20 13:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/20 13:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/20 13:59	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/24/20 13:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/20 13:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/20 13:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/20 13:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/20 13:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/20 13:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/20 13:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/20 13:59	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/20 13:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/20 13:59	1
Acetone	ND		10	3.0	ug/L			08/24/20 13:59	1
Acrylonitrile	ND		5.0	0.83	ug/L			08/24/20 13:59	1
Benzene	ND		1.0	0.41	ug/L			08/24/20 13:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/20 13:59	1
Bromoform	ND		1.0	0.26	ug/L			08/24/20 13:59	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/20 13:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/20 13:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/20 13:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/20 13:59	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/24/20 13:59	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/20 13:59	1
Chloroform	ND		1.0	0.34	ug/L			08/24/20 13:59	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/20 13:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/20 13:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/20 13:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/20 13:59	1
Dibromomethane	ND		1.0	0.41	ug/L			08/24/20 13:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/20 13:59	1
Iodomethane	ND		1.0	0.30	ug/L			08/24/20 13:59	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/24/20 13:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/20 13:59	1
o-Xylene	ND		1.0	0.76	ug/L			08/24/20 13:59	1
Styrene	ND		1.0	0.73	ug/L			08/24/20 13:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/20 13:59	1
Toluene	ND		1.0	0.51	ug/L			08/24/20 13:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/20 13:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/20 13:59	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/24/20 13:59	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/20 13:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/20 13:59	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/24/20 13:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/20 13:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/24/20 13:59	1

Client: Parsons Corporation
Job ID: 480-174019-1
Project/Site: 8 MON-009 Lyndon Road LF

Client Sample ID: 8-MON-009-003-06
Lab Sample ID: 480-174019-6
Date Collected: 08/19/20 00:00
Matrix: Water
Date Received: 08/20/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		08/24/20 13:59	1
4-Bromofluorobenzene (Surr)	100		73 - 120		08/24/20 13:59	1
Dibromofluoromethane (Surr)	107		75 - 123		08/24/20 13:59	1
Toluene-d8 (Surr)	97		80 - 120		08/24/20 13:59	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

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

Matrix: Water | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-174019-1	8-MON-009-003-01	101	100	103	101
480-174019-1 MS	8-MON-009-003-01	107	100	102	100
480-174019-1 MSD	8-MON-009-003-01	100	100	101	100
480-174019-2	8-MON-009-003-02	105	99	106	101
480-174019-3	8-MON-009-003-03	106	98	110	99
480-174019-6	8-MON-009-003-06	107	100	107	97
LCS 480-546414/5	Lab Control Sample	101	99	100	99
MB 480-546414/7	Method Blank	105	101	102	100

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**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)
480-174019-1	8-MON-009-003-01	84	83	39
480-174019-1 MS	8-MON-009-003-01	90	100	46
480-174019-1 MSD	8-MON-009-003-01	93	101	43
480-174019-2	8-MON-009-003-02	91	89	40
480-174019-3	8-MON-009-003-03	100	92	58
LCS 480-546427/2-A	Lab Control Sample	102	108	101
LCS 480-546928/2-A	Lab Control Sample	100	102	90
MB 480-546427/1-A	Method Blank	103	98	103
MB 480-546928/1-A	Method Blank	102	92	94

Surrogate Legend

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

Isotope Dilution Summary

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		DXE							
Lab Sample ID	Client Sample ID	(15-110)							
480-174019-1	8-MON-009-003-01	29							
480-174019-1 MS	8-MON-009-003-01	25							
480-174019-1 MSD	8-MON-009-003-01	27							
480-174019-2	8-MON-009-003-02	28							
480-174019-3	8-MON-009-003-03	30							
LCS 480-546226/2-A	Lab Control Sample	29							
MB 480-546226/1-A	Method Blank	32							

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)							
		PFDA	PFDoA	PFHxA	PFUnA	PFTDA	PFBA	PFOA	PFOS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(25-150)	(50-150)	(50-150)
480-174019-1	8-MON-009-003-01	84	77	86	83	74			64
480-174019-1 - DL	8-MON-009-003-01						112	88	
480-174019-1 MS	8-MON-009-003-01	103	84	85	81	75			76
480-174019-1 MS - DL	8-MON-009-003-01						94	81	
480-174019-1 MSD	8-MON-009-003-01	97	86	90	92	72			79
480-174019-1 MSD - DL	8-MON-009-003-01						81	75	
480-174019-2	8-MON-009-003-02	92	80	80	76	73			73
480-174019-2 - DL	8-MON-009-003-02						89	76	
480-174019-3	8-MON-009-003-03	106	95	93	104	81			86
480-174019-3 - DL	8-MON-009-003-03						83	99	
480-174019-4	8-MON-009-003-04	101	83	101	91	78			89
480-174019-4	8-MON-009-003-04						117	101	
480-174019-5	8-MON-009-003-05	93	81	106	91	76	108	93	82
LCS 200-158246/2-A	Lab Control Sample	97	91	105	93	83	112	96	93
MB 200-158246/1-A	Method Blank	105	88	104	89	80	115	99	93

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		C4PFHA	PFNA	PFPeA	PFOSA	PFHxS	d3NMFOS	d5NEFOS	M262FTS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(25-150)	(25-150)	(50-150)	(50-150)	(50-150)	(25-150)
480-174019-1	8-MON-009-003-01	86	89	74	58	83	86	91	99
480-174019-1 - DL	8-MON-009-003-01								
480-174019-1 MS	8-MON-009-003-01	90	97	77	60	86	83	98	107
480-174019-1 MS - DL	8-MON-009-003-01								
480-174019-1 MSD	8-MON-009-003-01	88	96	76	57	92	79	89	112
480-174019-1 MSD - DL	8-MON-009-003-01								
480-174019-2	8-MON-009-003-02	84	94	70	57	81	73	84	107
480-174019-2 - DL	8-MON-009-003-02								
480-174019-3	8-MON-009-003-03	95	112	78	68	89	95	99	116
480-174019-3 - DL	8-MON-009-003-03								
480-174019-4	8-MON-009-003-04	101	96	101	70	92	81	76	90
480-174019-4	8-MON-009-003-04								
480-174019-5	8-MON-009-003-05	103	95	101	59	95	85	77	90
LCS 200-158246/2-A	Lab Control Sample	96	95	98	48	97	86	83	90
MB 200-158246/1-A	Method Blank	107	103	97	54	94	72	88	97

Isotope Dilution Summary

Client: Parsons Corporation
Job ID: 480-174019-1
Project/Site: 8 MON-009 Lyndon Road LF

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

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
		M282FTS						
Lab Sample ID	Client Sample ID	(25-150)						
480-174019-1	8-MON-009-003-01	104						
480-174019-1 - DL	8-MON-009-003-01							
480-174019-1 MS	8-MON-009-003-01	117						
480-174019-1 MS - DL	8-MON-009-003-01							
480-174019-1 MSD	8-MON-009-003-01	105						
480-174019-1 MSD - DL	8-MON-009-003-01							
480-174019-2	8-MON-009-003-02	104						
480-174019-2 - DL	8-MON-009-003-02							
480-174019-3	8-MON-009-003-03	93						
480-174019-3 - DL	8-MON-009-003-03							
480-174019-4	8-MON-009-003-04	100						
480-174019-4	8-MON-009-003-04							
480-174019-5	8-MON-009-003-05	96						
LCS 200-158246/2-A	Lab Control Sample	91						
MB 200-158246/1-A	Method Blank	91						

Surrogate Legend

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

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

Lab Sample ID: MB 480-546414/7
Matrix: Water
Analysis Batch: 546414

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			08/24/20 10:17	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/20 10:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/20 10:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/20 10:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/20 10:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/20 10:17	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/24/20 10:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/20 10:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/20 10:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/20 10:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/20 10:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/20 10:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/20 10:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/20 10:17	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/20 10:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/20 10:17	1
Acetone	ND		10	3.0	ug/L			08/24/20 10:17	1
Acrylonitrile	ND		5.0	0.83	ug/L			08/24/20 10:17	1
Benzene	ND		1.0	0.41	ug/L			08/24/20 10:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/20 10:17	1
Bromoform	ND		1.0	0.26	ug/L			08/24/20 10:17	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/20 10:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/20 10:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/20 10:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/20 10:17	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/24/20 10:17	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/20 10:17	1
Chloroform	ND		1.0	0.34	ug/L			08/24/20 10:17	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/20 10:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/20 10:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/20 10:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/20 10:17	1
Dibromomethane	ND		1.0	0.41	ug/L			08/24/20 10:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/20 10:17	1
Iodomethane	ND		1.0	0.30	ug/L			08/24/20 10:17	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/24/20 10:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/20 10:17	1
o-Xylene	ND		1.0	0.76	ug/L			08/24/20 10:17	1
Styrene	ND		1.0	0.73	ug/L			08/24/20 10:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/20 10:17	1
Toluene	ND		1.0	0.51	ug/L			08/24/20 10:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/20 10:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/20 10:17	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/24/20 10:17	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/20 10:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/20 10:17	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/24/20 10:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/20 10:17	1

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

Lab Sample ID: MB 480-546414/7
Matrix: Water
Analysis Batch: 546414

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			08/24/20 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*08/24/20 10:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/24/20 10:17*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/24/20 10:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/24/20 10:17*	*1*

Lab Sample ID: LCS 480-546414/5
Matrix: Water
Analysis Batch: 546414

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	24.3		ug/L		97	80 - 120
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		96	76 - 120
1,1,2-Trichloroethane	25.0	22.5		ug/L		90	76 - 122
1,1-Dichloroethane	25.0	24.1		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	26.3		ug/L		105	66 - 127
1,2,3-Trichloropropane	25.0	24.1		ug/L		96	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.4		ug/L		94	56 - 134
1,2-Dibromoethane	25.0	23.8		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	24.9		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	24.2		ug/L		97	76 - 120
1,4-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 120
2-Butanone (MEK)	125	115		ug/L		92	57 - 140
2-Hexanone	125	119		ug/L		96	65 - 127
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	71 - 125
Acetone	125	115		ug/L		92	56 - 142
Acrylonitrile	250	236		ug/L		94	63 - 125
Benzene	25.0	24.6		ug/L		98	71 - 124
Bromodichloromethane	25.0	24.3		ug/L		97	80 - 122
Bromoform	25.0	24.0		ug/L		96	61 - 132
Bromomethane	25.0	22.4		ug/L		89	55 - 144
Carbon disulfide	25.0	25.7		ug/L		103	59 - 134
Carbon tetrachloride	25.0	25.4		ug/L		102	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	80 - 120
Chlorobromomethane	25.0	24.6		ug/L		98	72 - 130
Chloroethane	25.0	21.7		ug/L		87	69 - 136
Chloroform	25.0	24.2		ug/L		97	73 - 127
Chloromethane	25.0	20.6		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	24.4		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	74 - 124
Dibromochloromethane	25.0	23.8		ug/L		95	75 - 125
Dibromomethane	25.0	24.6		ug/L		98	76 - 127
Ethylbenzene	25.0	24.9		ug/L		100	77 - 123
Iodomethane	25.0	24.4		ug/L		98	78 - 123

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

Lab Sample ID: LCS 480-546414/5
Matrix: Water
Analysis Batch: 546414

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	25.3		ug/L		101	76 - 122
Methylene Chloride	25.0	25.2		ug/L		101	75 - 124
o-Xylene	25.0	24.7		ug/L		99	76 - 122
Styrene	25.0	25.0		ug/L		100	80 - 120
Tetrachloroethene	25.0	25.1		ug/L		101	74 - 122
Toluene	25.0	24.3		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	24.4		ug/L		98	80 - 120
trans-1,4-Dichloro-2-butene	25.0	21.7		ug/L		87	41 - 131
Trichloroethene	25.0	25.5		ug/L		102	74 - 123
Trichlorofluoromethane	25.0	23.6		ug/L		94	62 - 150
Vinyl acetate	50.0	46.2		ug/L		92	50 - 144
Vinyl chloride	25.0	22.5		ug/L		90	65 - 133

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

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546414

Client Sample ID: 8-MON-009-003-01
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		100	95.1		ug/L		95	80 - 120
1,1,1-Trichloroethane	ND		100	103		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	ND		100	99.1		ug/L		99	76 - 120
1,1,2-Trichloroethane	ND		100	91.9		ug/L		92	76 - 122
1,1-Dichloroethane	ND		100	101		ug/L		101	77 - 120
1,1-Dichloroethene	ND		100	112		ug/L		112	66 - 127
1,2,3-Trichloropropane	ND		100	98.3		ug/L		98	68 - 122
1,2-Dibromo-3-Chloropropane	ND		100	86.3		ug/L		86	56 - 134
1,2-Dibromoethane	ND		100	94.0		ug/L		94	77 - 120
1,2-Dichlorobenzene	ND		100	99.3		ug/L		99	80 - 124
1,2-Dichloroethane	ND		100	97.7		ug/L		98	75 - 120
1,2-Dichloropropane	ND		100	99.8		ug/L		100	76 - 120
1,4-Dichlorobenzene	ND		100	98.1		ug/L		98	78 - 124
2-Butanone (MEK)	ND		500	472		ug/L		94	57 - 140
2-Hexanone	ND		500	483		ug/L		97	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		500	472		ug/L		94	71 - 125
Acetone	ND		500	467		ug/L		93	56 - 142
Acrylonitrile	ND		1000	975		ug/L		98	63 - 125
Benzene	ND		100	102		ug/L		102	71 - 124
Bromodichloromethane	ND		100	97.3		ug/L		97	80 - 122
Bromoform	ND		100	85.6		ug/L		86	61 - 132
Bromomethane	ND		100	94.6		ug/L		95	55 - 144
Carbon disulfide	ND		100	110		ug/L		110	59 - 134

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

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546414

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	ND		100	102		ug/L		102	72 - 134
Chlorobenzene	ND		100	97.8		ug/L		98	80 - 120
Chlorobromomethane	ND		100	102		ug/L		102	72 - 130
Chloroethane	ND		100	94.4		ug/L		94	69 - 136
Chloroform	ND		100	99.1		ug/L		99	73 - 127
Chloromethane	ND		100	93.7		ug/L		94	68 - 124
cis-1,2-Dichloroethene	ND		100	101		ug/L		101	74 - 124
cis-1,3-Dichloropropene	ND		100	95.2		ug/L		95	74 - 124
Dibromochloromethane	ND		100	90.7		ug/L		91	75 - 125
Dibromomethane	ND		100	99.8		ug/L		100	76 - 127
Ethylbenzene	ND		100	99.2		ug/L		99	77 - 123
Iodomethane	ND		100	98.6		ug/L		99	78 - 123
m,p-Xylene	ND		100	102		ug/L		102	76 - 122
Methylene Chloride	ND		100	108		ug/L		108	75 - 124
o-Xylene	ND		100	98.9		ug/L		99	76 - 122
Styrene	ND		100	99.5		ug/L		99	80 - 120
Tetrachloroethene	ND		100	101		ug/L		101	74 - 122
Toluene	ND		100	99.4		ug/L		99	80 - 122
trans-1,2-Dichloroethene	ND		100	105		ug/L		105	73 - 127
trans-1,3-Dichloropropene	ND		100	90.9		ug/L		91	80 - 120
trans-1,4-Dichloro-2-butene	ND	F1	100	34.5	F1	ug/L		34	41 - 131
Trichloroethene	ND		100	102		ug/L		102	74 - 123
Trichlorofluoromethane	ND		100	106		ug/L		106	62 - 150
Vinyl acetate	ND		200	185		ug/L		92	50 - 144
Vinyl chloride	ND		100	103		ug/L		103	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546414

Client Sample ID: 8-MON-009-003-01
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		100	91.8		ug/L		92	80 - 120	4	20
1,1,1-Trichloroethane	ND		100	103		ug/L		103	73 - 126	1	15
1,1,2,2-Tetrachloroethane	ND		100	94.5		ug/L		95	76 - 120	5	15
1,1,2-Trichloroethane	ND		100	93.5		ug/L		93	76 - 122	2	15
1,1-Dichloroethane	ND		100	96.6		ug/L		97	77 - 120	4	20
1,1-Dichloroethene	ND		100	106		ug/L		106	66 - 127	6	16
1,2,3-Trichloropropane	ND		100	94.7		ug/L		95	68 - 122	4	14
1,2-Dibromo-3-Chloropropane	ND		100	83.0		ug/L		83	56 - 134	4	15
1,2-Dibromoethane	ND		100	96.2		ug/L		96	77 - 120	2	15
1,2-Dichlorobenzene	ND		100	94.6		ug/L		95	80 - 124	5	20
1,2-Dichloroethane	ND		100	95.4		ug/L		95	75 - 120	2	20

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

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546414

Client Sample ID: 8-MON-009-003-01
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		100	99.1		ug/L		99	76 - 120	1	20
1,4-Dichlorobenzene	ND		100	94.8		ug/L		95	78 - 124	3	20
2-Butanone (MEK)	ND		500	478		ug/L		96	57 - 140	1	20
2-Hexanone	ND		500	509		ug/L		102	65 - 127	5	15
4-Methyl-2-pentanone (MIBK)	ND		500	492		ug/L		98	71 - 125	4	35
Acetone	ND		500	469		ug/L		94	56 - 142	0	15
Acrylonitrile	ND		1000	962		ug/L		96	63 - 125	1	20
Benzene	ND		100	99.5		ug/L		100	71 - 124	2	13
Bromodichloromethane	ND		100	96.0		ug/L		96	80 - 122	1	15
Bromoform	ND		100	88.6		ug/L		89	61 - 132	3	15
Bromomethane	ND		100	90.6		ug/L		91	55 - 144	4	15
Carbon disulfide	ND		100	107		ug/L		107	59 - 134	3	15
Carbon tetrachloride	ND		100	102		ug/L		102	72 - 134	1	15
Chlorobenzene	ND		100	98.3		ug/L		98	80 - 120	1	25
Chlorobromomethane	ND		100	98.2		ug/L		98	72 - 130	4	15
Chloroethane	ND		100	93.3		ug/L		93	69 - 136	1	15
Chloroform	ND		100	96.7		ug/L		97	73 - 127	2	20
Chloromethane	ND		100	86.8		ug/L		87	68 - 124	8	15
cis-1,2-Dichloroethene	ND		100	96.6		ug/L		97	74 - 124	4	15
cis-1,3-Dichloropropene	ND		100	92.7		ug/L		93	74 - 124	3	15
Dibromochloromethane	ND		100	92.0		ug/L		92	75 - 125	1	15
Dibromomethane	ND		100	99.8		ug/L		100	76 - 127	0	15
Ethylbenzene	ND		100	99.3		ug/L		99	77 - 123	0	15
Iodomethane	ND		100	98.3		ug/L		98	78 - 123	0	20
m,p-Xylene	ND		100	103		ug/L		103	76 - 122	1	16
Methylene Chloride	ND		100	103		ug/L		103	75 - 124	4	15
o-Xylene	ND		100	97.1		ug/L		97	76 - 122	2	16
Styrene	ND		100	100		ug/L		100	80 - 120	1	20
Tetrachloroethene	ND		100	101		ug/L		101	74 - 122	1	20
Toluene	ND		100	97.5		ug/L		98	80 - 122	2	15
trans-1,2-Dichloroethene	ND		100	101		ug/L		101	73 - 127	4	20
trans-1,3-Dichloropropene	ND		100	91.2		ug/L		91	80 - 120	0	15
trans-1,4-Dichloro-2-butene	ND	F1	100	36.6	F1	ug/L		37	41 - 131	6	20
Trichloroethene	ND		100	99.9		ug/L		100	74 - 123	2	16
Trichlorofluoromethane	ND		100	102		ug/L		102	62 - 150	4	20
Vinyl acetate	ND		200	184		ug/L		92	50 - 144	0	23
Vinyl chloride	ND		100	98.1		ug/L		98	65 - 133	5	15

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

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

Lab Sample ID: MB 480-546226/1-A
Matrix: Water
Analysis Batch: 546349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		08/21/20 08:30	08/22/20 18:39	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*08/21/20 08:30*	*08/22/20 18:39*	*1*

Lab Sample ID: LCS 480-546226/2-A
Matrix: Water
Analysis Batch: 546349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546226

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			1.00	1.07		ug/L		107	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*29*		*15 - 110*

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546349

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	2.2	E	0.952	3.48	E	ug/L		136	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*25*		*15 - 110*

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546349

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.2	E	0.952	3.49	E	ug/L		137	40 - 140	0	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*27*		*15 - 110*

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

Lab Sample ID: MB 480-546427/1-A
Matrix: Water
Analysis Batch: 546675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 06:49	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/24/20 07:49	08/26/20 06:49	1
Anthracene	ND		0.50	0.39	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 06:49	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/24/20 07:49	08/26/20 06:49	1

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

Lab Sample ID: MB 480-546427/1-A
Matrix: Water
Analysis Batch: 546675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.50	0.32	ug/L		08/24/20 07:49	08/26/20 06:49	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 06:49	1
Fluoranthene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 06:49	1
Fluorene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 06:49	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/24/20 07:49	08/26/20 06:49	1
Naphthalene	ND		0.50	0.42	ug/L		08/24/20 07:49	08/26/20 06:49	1
Phenanthrene	0.568		0.50	0.38	ug/L		08/24/20 07:49	08/26/20 06:49	1
Pyrene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 06:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*48 - 120*	*08/24/20 07:49*	*08/26/20 06:49*	*1*
Nitrobenzene-d5	*98*		*46 - 120*	*08/24/20 07:49*	*08/26/20 06:49*	*1*
p-Terphenyl-d14	*103*		*24 - 136*	*08/24/20 07:49*	*08/26/20 06:49*	*1*

Lab Sample ID: LCS 480-546427/2-A
Matrix: Water
Analysis Batch: 546675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	31.7		ug/L		99	60 - 120
Acenaphthylene	32.0	33.2		ug/L		104	63 - 120
Anthracene	32.0	34.5		ug/L		108	69 - 131
Benzo[a]anthracene	32.0	35.0		ug/L		109	62 - 142
Benzo[a]pyrene	32.0	36.4		ug/L		114	46 - 156
Benzo[b]fluoranthene	32.0	36.0		ug/L		113	50 - 149
Benzo[g,h,i]perylene	32.0	39.4		ug/L		123	34 - 189
Benzo[k]fluoranthene	32.0	35.0		ug/L		109	47 - 147
Chrysene	32.0	34.1		ug/L		107	69 - 140
Dibenz(a,h)anthracene	32.0	38.2	E	ug/L		119	35 - 176
Fluoranthene	32.0	36.3		ug/L		113	67 - 133
Fluorene	32.0	33.4		ug/L		104	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	38.7		ug/L		121	57 - 161
Naphthalene	32.0	30.6		ug/L		96	48 - 120
Phenanthrene	32.0	33.9		ug/L		106	67 - 130
Pyrene	32.0	34.6		ug/L		108	58 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*102*		*48 - 120*
Nitrobenzene-d5	*108*		*46 - 120*
p-Terphenyl-d14	*101*		*24 - 136*

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546675

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.8		32.0	31.1		ug/L		88	60 - 120
Acenaphthylene	ND		32.0	29.8		ug/L		93	63 - 120

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

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546675

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	ND		32.0	28.6		ug/L		89	69 - 131
Benzo[a]anthracene	ND	F1	32.0	17.7	F1	ug/L		55	62 - 142
Benzo[a]pyrene	ND		32.0	14.9		ug/L		47	46 - 156
Benzo[b]fluoranthene	ND	F1	32.0	14.7	F1	ug/L		46	50 - 149
Benzo[g,h,i]perylene	ND		32.0	15.2		ug/L		48	34 - 189
Benzo[k]fluoranthene	ND	F1	32.0	14.3	F1	ug/L		45	47 - 147
Chrysene	ND	F1	32.0	16.5	F1	ug/L		52	69 - 140
Dibenz(a,h)anthracene	ND		32.0	14.8		ug/L		46	35 - 176
Fluoranthene	ND		32.0	27.4		ug/L		86	67 - 133
Fluorene	1.0		32.0	30.4		ug/L		92	66 - 129
Indeno[1,2,3-cd]pyrene	ND	F1	32.0	14.9	F1	ug/L		47	57 - 161
Naphthalene	ND		32.0	28.0		ug/L		87	48 - 120
Phenanthrene	ND		32.0	28.6		ug/L		89	67 - 130
Pyrene	ND		32.0	26.0		ug/L		81	58 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*48 - 120*
Nitrobenzene-d5	*100*		*46 - 120*
p-Terphenyl-d14	*46*		*24 - 136*

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546675

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	2.8		32.0	32.1		ug/L		91	60 - 120	3	24
Acenaphthylene	ND		32.0	31.3		ug/L		98	63 - 120	5	18
Anthracene	ND		32.0	29.0		ug/L		91	69 - 131	2	15
Benzo[a]anthracene	ND	F1	32.0	18.0	F1	ug/L		56	62 - 142	2	15
Benzo[a]pyrene	ND		32.0	15.6		ug/L		49	46 - 156	5	15
Benzo[b]fluoranthene	ND	F1	32.0	15.4	F1	ug/L		48	50 - 149	5	15
Benzo[g,h,i]perylene	ND		32.0	15.9		ug/L		50	34 - 189	4	15
Benzo[k]fluoranthene	ND	F1	32.0	15.2		ug/L		47	47 - 147	6	22
Chrysene	ND	F1	32.0	17.2	F1	ug/L		54	69 - 140	4	15
Dibenz(a,h)anthracene	ND		32.0	15.6		ug/L		49	35 - 176	5	15
Fluoranthene	ND		32.0	27.6		ug/L		86	67 - 133	1	15
Fluorene	1.0		32.0	31.0		ug/L		94	66 - 129	2	15
Indeno[1,2,3-cd]pyrene	ND	F1	32.0	15.9	F1	ug/L		50	57 - 161	6	15
Naphthalene	ND		32.0	29.2		ug/L		91	48 - 120	4	29
Phenanthrene	ND		32.0	29.2		ug/L		91	67 - 130	2	15
Pyrene	ND		32.0	26.0		ug/L		81	58 - 136	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*93*		*48 - 120*
Nitrobenzene-d5	*101*		*46 - 120*
p-Terphenyl-d14	*43*		*24 - 136*

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

Lab Sample ID: MB 480-546928/1-A
Matrix: Water
Analysis Batch: 547071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		08/26/20 14:52	08/27/20 16:02	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/26/20 14:52	08/27/20 16:02	1
Anthracene	ND		0.50	0.39	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/26/20 14:52	08/27/20 16:02	1
Chrysene	ND		0.50	0.32	ug/L		08/26/20 14:52	08/27/20 16:02	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/26/20 14:52	08/27/20 16:02	1
Fluoranthene	ND		0.50	0.36	ug/L		08/26/20 14:52	08/27/20 16:02	1
Fluorene	ND		0.50	0.37	ug/L		08/26/20 14:52	08/27/20 16:02	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/26/20 14:52	08/27/20 16:02	1
Naphthalene	ND		0.50	0.42	ug/L		08/26/20 14:52	08/27/20 16:02	1
Phenanthrene	ND		0.50	0.38	ug/L		08/26/20 14:52	08/27/20 16:02	1
Pyrene	ND		0.50	0.36	ug/L		08/26/20 14:52	08/27/20 16:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*48 - 120*	*08/26/20 14:52*	*08/27/20 16:02*	*1*
Nitrobenzene-d5	*92*		*46 - 120*	*08/26/20 14:52*	*08/27/20 16:02*	*1*
p-Terphenyl-d14	*94*		*24 - 136*	*08/26/20 14:52*	*08/27/20 16:02*	*1*

Lab Sample ID: LCS 480-546928/2-A
Matrix: Water
Analysis Batch: 547071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	31.0		ug/L		97	60 - 120
Acenaphthylene	32.0	32.3		ug/L		101	63 - 120
Anthracene	32.0	32.4		ug/L		101	69 - 131
Benzo[a]anthracene	32.0	30.9		ug/L		96	62 - 142
Benzo[a]pyrene	32.0	32.0		ug/L		100	46 - 156
Benzo[b]fluoranthene	32.0	31.1		ug/L		97	50 - 149
Benzo[g,h,i]perylene	32.0	35.3		ug/L		110	34 - 189
Benzo[k]fluoranthene	32.0	31.7		ug/L		99	47 - 147
Chrysene	32.0	30.1		ug/L		94	69 - 140
Dibenz(a,h)anthracene	32.0	33.4	E	ug/L		104	35 - 176
Fluoranthene	32.0	33.6		ug/L		105	67 - 133
Fluorene	32.0	32.1		ug/L		100	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	33.8		ug/L		106	57 - 161
Naphthalene	32.0	30.0		ug/L		94	48 - 120
Phenanthrene	32.0	31.8		ug/L		99	67 - 130
Pyrene	32.0	32.5		ug/L		102	58 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*48 - 120*
Nitrobenzene-d5	*102*		*46 - 120*
p-Terphenyl-d14	*90*		*24 - 136*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-158246/1-A
Matrix: Water
Analysis Batch: 158290

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158246

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		08/25/20 16:17	08/26/20 19:18	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		20	5.5	ng/L		08/25/20 16:17	08/26/20 19:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		08/25/20 16:17	08/26/20 19:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorobutanesulfonic acid (PFBS)	0.719	J	2.0	0.49	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorobutanoic acid (PFBA)	ND		2.0	1.0	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorooctanesulfonamide (PFOSA)	ND		10	10	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.81	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.63	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.78	ng/L		08/25/20 16:17	08/26/20 19:18	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*105*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C2 PFDoA	*88*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C2 PFHxA	*104*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C2 PFUnA	*89*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C4 PFBA	*115*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C4 PFOA	*99*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C4 PFOS	*93*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C4 PFHpA	*107*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C5 PFNA	*103*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C5 PFPeA	*97*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C8 FOSA	*54*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
18O2 PFHxS	*94*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
d3-NMeFOSAA	*72*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
d5-NEtFOSAA	*88*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
M2-6:2 FTS	*97*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
M2-8:2 FTS	*91*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*

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

Lab Sample ID: LCS 200-158246/2-A
Matrix: Water
Analysis Batch: 158290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	40.9		ng/L		107	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	34.8		ng/L		92	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.1		ng/L		100	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	32.8		ng/L		82	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	40.3		ng/L		114	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	38.5		ng/L		96	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	35.4		ng/L		92	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	41.6		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	38.2		ng/L		96	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	43.0		ng/L		113	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	41.6		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.9		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	38.3		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	40.0	39.5		ng/L		99	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	42.2		ng/L		105	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	36.9		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	42.4		ng/L		106	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	41.3		ng/L		103	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	41.8		ng/L		104	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	38.5		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	39.7		ng/L		99	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFDA	*97*		*50 - 150*
13C2 PFDoA	*91*		*50 - 150*
13C2 PFHxA	*105*		*50 - 150*
13C2 PFUnA	*93*		*50 - 150*
13C2 PFTeDA	*83*		*50 - 150*
13C4 PFBA	*112*		*25 - 150*
13C4 PFOA	*96*		*50 - 150*
13C4 PFOS	*93*		*50 - 150*
13C4 PFHpA	*96*		*50 - 150*
13C5 PFNA	*95*		*50 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C8 FOSA	*48*		*25 - 150*
18O2 PFHxS	*97*		*50 - 150*
d3-NMeFOSAA	*86*		*50 - 150*
d5-NEtFOSAA	*83*		*50 - 150*

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

Lab Sample ID: LCS 200-158246/2-A
Matrix: Water
Analysis Batch: 158290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158246

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	90		25 - 150
M2-8:2 FTS	91		25 - 150

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 158290

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 158246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		34.6	36.8		ng/L		106	40 - 160
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		34.3	35.2		ng/L		103	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38	F2	36.2	61.7		ng/L		65	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	6.3	J	36.2	37.8		ng/L		87	40 - 160
Perfluorobutanesulfonic acid (PFBS)	99	B	32.0	137		ng/L		119	40 - 160
Perfluorodecanesulfonic acid (PFDS)	ND		34.9	33.9		ng/L		97	40 - 160
Perfluorodecanoic acid (PFDA)	2.0		36.2	37.7		ng/L		99	40 - 160
Perfluorododecanoic acid (PFDoA)	ND		36.2	38.6		ng/L		107	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	13		34.4	49.2		ng/L		105	40 - 160
Perfluoroheptanoic acid (PFHpA)	190		36.2	225	4	ng/L		98	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	180		32.9	214	4	ng/L		95	40 - 160
Perfluorohexanoic acid (PFHxA)	200		36.2	239	4	ng/L		94	40 - 160
Perfluorononanoic acid (PFNA)	10		36.2	43.0		ng/L		90	40 - 160
Perfluorooctanesulfonamide (PFOSA)	ND		36.2	41.3		ng/L		114	40 - 160
Perfluorooctanesulfonic acid (PFOS)	290		33.6	297	4	ng/L		17	40 - 160
Perfluoropentanoic acid (PFPeA)	100		36.2	127		ng/L		71	40 - 160
Perfluorotetradecanoic acid (PFTeA)	ND		36.2	39.7		ng/L		110	40 - 160
Perfluorotridecanoic acid (PFTriA)	ND		36.2	36.8		ng/L		102	40 - 160
Perfluoroundecanoic acid (PFUnA)	ND	F2	36.2	50.1		ng/L		138	40 - 160

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFDA	103		50 - 150
13C2 PFDoA	84		50 - 150
13C2 PFHxA	85		50 - 150
13C2 PFUnA	81		50 - 150
13C2 PFTeDA	75		50 - 150
13C4 PFOS	76		50 - 150
13C4 PFHpA	90		50 - 150
13C5 PFNA	97		50 - 150
13C5 PFPeA	77		25 - 150

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

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 158290

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 158246

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C8 FOSA	60		25 - 150
18O2 PFHxS	86		50 - 150
d3-NMeFOSAA	83		50 - 150
d5-NEtFOSAA	98		50 - 150
M2-6:2 FTS	107		25 - 150
M2-8:2 FTS	117		25 - 150

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 158290

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 158246

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		34.8	33.5		ng/L		96	40 - 160	9	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		34.4	34.7		ng/L		101	40 - 160	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38	F2	36.3	78.8	F2	ng/L		112	40 - 160	24	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	6.3	J	36.3	39.3		ng/L		91	40 - 160	4	20
Perfluorobutanesulfonic acid (PFBS)	99	B	32.1	134		ng/L		111	40 - 160	2	20
Perfluorodecanesulfonic acid (PFDS)	ND		35.0	34.4		ng/L		98	40 - 160	2	30
Perfluorodecanoic acid (PFDA)	2.0		36.3	39.4		ng/L		103	40 - 160	4	20
Perfluorododecanoic acid (PFDoA)	ND		36.3	34.3		ng/L		94	40 - 160	12	20
Perfluoroheptanesulfonic Acid (PFHpS)	13		34.6	49.1		ng/L		105	40 - 160	0	30
Perfluoroheptanoic acid (PFHpA)	190		36.3	239	4	ng/L		135	40 - 160	6	20
Perfluorohexanesulfonic acid (PFHxS)	180		33.1	203	4	ng/L		60	40 - 160	5	20
Perfluorohexanoic acid (PFHxA)	200		36.3	234	4	ng/L		80	40 - 160	2	20
Perfluorononanoic acid (PFNA)	10		36.3	42.1		ng/L		87	40 - 160	2	20
Perfluorooctanesulfonamide (PFOSA)	ND		36.3	41.9		ng/L		115	40 - 160	1	30
Perfluorooctanesulfonic acid (PFOS)	290		33.7	284	4	ng/L		-21	40 - 160	4	20
Perfluoropentanoic acid (PFPeA)	100		36.3	135		ng/L		92	40 - 160	6	30
Perfluorotetradecanoic acid (PFTeA)	ND		36.3	42.7		ng/L		117	40 - 160	7	20
Perfluorotridecanoic acid (PFTriA)	ND		36.3	35.0		ng/L		96	40 - 160	5	20
Perfluoroundecanoic acid (PFUnA)	ND	F2	36.3	39.7	F2	ng/L		109	40 - 160	23	20

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFDA	97		50 - 150
13C2 PFDoA	86		50 - 150
13C2 PFHxA	90		50 - 150
13C2 PFUnA	92		50 - 150
13C2 PFTeDA	72		50 - 150

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

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 158290

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 158246

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFOS	*79*		*50 - 150*
13C4 PFHpA	*88*		*50 - 150*
13C5 PFNA	*96*		*50 - 150*
13C5 PFPeA	*76*		*25 - 150*
13C8 FOSA	*57*		*25 - 150*
18O2 PFHxS	*92*		*50 - 150*
d3-NMeFOSAA	*79*		*50 - 150*
d5-NEtFOSAA	*89*		*50 - 150*
M2-6:2 FTS	*112*		*25 - 150*
M2-8:2 FTS	*105*		*25 - 150*

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

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 158307

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 158246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA) - DL	330		36.2	460	4	ng/L		353	40 - 160
Perfluorooctanoic acid (PFOA) - DL	4800		36.2	5440	4	ng/L		1645	40 - 160

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA - DL	*94*		*25 - 150*
13C4 PFOA - DL	*81*		*50 - 150*

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 158307

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 158246

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA) - DL	330		36.3	471	4	ng/L		382	40 - 160	2	30
Perfluorooctanoic acid (PFOA) - DL	4800		36.3	5450	4	ng/L		1661	40 - 160	0	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA - DL	*81*		*25 - 150*
13C4 PFOA - DL	*75*		*50 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-546227/1-A
Matrix: Water
Analysis Batch: 546628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/21/20 10:00	08/24/20 13:04	1
Antimony	ND		0.020	0.0068	mg/L		08/21/20 10:00	08/24/20 13:04	1
Arsenic	ND		0.015	0.0056	mg/L		08/21/20 10:00	08/24/20 13:04	1

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

Lab Sample ID: MB 480-546227/1-A
Matrix: Water
Analysis Batch: 546628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND	^	0.0020	0.00070	mg/L		08/21/20 10:00	08/24/20 13:04	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/20 10:00	08/24/20 13:04	1
Boron	ND		0.020	0.0040	mg/L		08/21/20 10:00	08/24/20 13:04	1
Cadmium	ND		0.0020	0.00050	mg/L		08/21/20 10:00	08/24/20 13:04	1
Calcium	ND		0.50	0.10	mg/L		08/21/20 10:00	08/24/20 13:04	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/20 10:00	08/24/20 13:04	1
Cobalt	0.000720	J	0.0040	0.00063	mg/L		08/21/20 10:00	08/24/20 13:04	1
Copper	ND		0.010	0.0016	mg/L		08/21/20 10:00	08/24/20 13:04	1
Iron	ND		0.050	0.019	mg/L		08/21/20 10:00	08/24/20 13:04	1
Lead	ND		0.010	0.0030	mg/L		08/21/20 10:00	08/24/20 13:04	1
Magnesium	ND		0.20	0.043	mg/L		08/21/20 10:00	08/24/20 13:04	1
Manganese	ND	^	0.0030	0.00040	mg/L		08/21/20 10:00	08/24/20 13:04	1
Nickel	ND		0.010	0.0013	mg/L		08/21/20 10:00	08/24/20 13:04	1
Potassium	ND		0.50	0.10	mg/L		08/21/20 10:00	08/24/20 13:04	1
Selenium	ND		0.025	0.0087	mg/L		08/21/20 10:00	08/24/20 13:04	1
Silver	ND		0.0060	0.0017	mg/L		08/21/20 10:00	08/24/20 13:04	1
Sodium	ND		1.0	0.32	mg/L		08/21/20 10:00	08/24/20 13:04	1
Thallium	ND		0.020	0.010	mg/L		08/21/20 10:00	08/24/20 13:04	1
Vanadium	ND		0.0050	0.0015	mg/L		08/21/20 10:00	08/24/20 13:04	1
Zinc	ND		0.010	0.0015	mg/L		08/21/20 10:00	08/24/20 13:04	1

Lab Sample ID: LCS 480-546227/2-A
Matrix: Water
Analysis Batch: 546628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.89		mg/L		99	80 - 120
Antimony	0.200	0.210		mg/L		105	80 - 120
Arsenic	0.200	0.204		mg/L		102	80 - 120
Barium	0.200	0.217	^	mg/L		108	80 - 120
Beryllium	0.200	0.205		mg/L		102	80 - 120
Boron	0.200	0.201		mg/L		101	80 - 120
Cadmium	0.200	0.200		mg/L		100	80 - 120
Calcium	10.0	10.11		mg/L		101	80 - 120
Chromium	0.200	0.205		mg/L		102	80 - 120
Cobalt	0.200	0.194		mg/L		97	80 - 120
Copper	0.200	0.197		mg/L		99	80 - 120
Iron	10.0	9.80		mg/L		98	80 - 120
Lead	0.200	0.197		mg/L		98	80 - 120
Magnesium	10.0	9.89		mg/L		99	80 - 120
Manganese	0.200	0.197	^	mg/L		99	80 - 120
Nickel	0.200	0.193		mg/L		97	80 - 120
Potassium	10.0	9.41		mg/L		94	80 - 120
Selenium	0.200	0.199		mg/L		99	80 - 120
Silver	0.0500	0.0499		mg/L		100	80 - 120
Sodium	10.0	9.54		mg/L		95	80 - 120
Thallium	0.200	0.200		mg/L		100	80 - 120
Vanadium	0.200	0.198		mg/L		99	80 - 120
Zinc	0.200	0.205		mg/L		103	80 - 120

Method: 6010C - Metals (ICP)

Lab Sample ID: LCSD 480-546227/3-A
Matrix: Water
Analysis Batch: 546628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 546227

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			10.0	9.91		mg/L		99	80 - 120	0	20
Antimony			0.200	0.208		mg/L		104	80 - 120	1	20
Arsenic			0.200	0.202		mg/L		101	80 - 120	1	20
Barium			0.200	0.215	^	mg/L		108	80 - 120	1	20
Beryllium			0.200	0.203		mg/L		102	80 - 120	1	20
Boron			0.200	0.200		mg/L		100	80 - 120	1	20
Cadmium			0.200	0.199		mg/L		99	80 - 120	1	20
Calcium			10.0	10.05		mg/L		101	80 - 120	1	20
Chromium			0.200	0.203		mg/L		102	80 - 120	1	20
Cobalt			0.200	0.193		mg/L		96	80 - 120	1	20
Copper			0.200	0.196		mg/L		98	80 - 120	1	20
Iron			10.0	9.74		mg/L		97	80 - 120	1	20
Lead			0.200	0.197		mg/L		98	80 - 120	0	20
Magnesium			10.0	9.79		mg/L		98	80 - 120	1	20
Manganese			0.200	0.197	^	mg/L		98	80 - 120	0	20
Nickel			0.200	0.193		mg/L		97	80 - 120	0	20
Potassium			10.0	9.44		mg/L		94	80 - 120	0	20
Selenium			0.200	0.196		mg/L		98	80 - 120	1	20
Silver			0.0500	0.0498		mg/L		100	80 - 120	0	20
Sodium			10.0	9.51		mg/L		95	80 - 120	0	20
Thallium			0.200	0.199		mg/L		100	80 - 120	0	20
Vanadium			0.200	0.197		mg/L		99	80 - 120	1	20
Zinc			0.200	0.205		mg/L		102	80 - 120	0	20

Lab Sample ID: MB 480-546229/1-A
Matrix: Water
Analysis Batch: 546633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/24/20 09:13	08/24/20 22:16	1
Antimony	ND		0.020	0.0068	mg/L		08/24/20 09:13	08/24/20 22:16	1
Arsenic	ND		0.015	0.0056	mg/L		08/24/20 09:13	08/24/20 22:16	1
Barium	ND	^	0.0020	0.00070	mg/L		08/24/20 09:13	08/24/20 22:16	1
Beryllium	ND		0.0020	0.00030	mg/L		08/24/20 09:13	08/24/20 22:16	1
Boron	0.0152	J	0.020	0.0040	mg/L		08/24/20 09:13	08/24/20 22:16	1
Cadmium	ND		0.0020	0.00050	mg/L		08/24/20 09:13	08/24/20 22:16	1
Calcium	ND		0.50	0.10	mg/L		08/24/20 09:13	08/24/20 22:16	1
Chromium	ND		0.0040	0.0010	mg/L		08/24/20 09:13	08/24/20 22:16	1
Cobalt	ND		0.0040	0.00063	mg/L		08/24/20 09:13	08/24/20 22:16	1
Copper	ND		0.010	0.0016	mg/L		08/24/20 09:13	08/24/20 22:16	1
Iron	ND		0.050	0.019	mg/L		08/24/20 09:13	08/24/20 22:16	1
Lead	ND		0.010	0.0030	mg/L		08/24/20 09:13	08/24/20 22:16	1
Magnesium	ND		0.20	0.043	mg/L		08/24/20 09:13	08/24/20 22:16	1
Manganese	ND		0.0030	0.00040	mg/L		08/24/20 09:13	08/24/20 22:16	1
Nickel	ND		0.010	0.0013	mg/L		08/24/20 09:13	08/24/20 22:16	1
Potassium	ND		0.50	0.10	mg/L		08/24/20 09:13	08/24/20 22:16	1
Selenium	ND		0.025	0.0087	mg/L		08/24/20 09:13	08/24/20 22:16	1
Silver	ND		0.0060	0.0017	mg/L		08/24/20 09:13	08/24/20 22:16	1
Sodium	ND		1.0	0.32	mg/L		08/24/20 09:13	08/24/20 22:16	1

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

Lab Sample ID: MB 480-546229/1-A
Matrix: Water
Analysis Batch: 546633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.020	0.010	mg/L		08/24/20 09:13	08/24/20 22:16	1
Vanadium	ND		0.0050	0.0015	mg/L		08/24/20 09:13	08/24/20 22:16	1
Zinc	ND		0.010	0.0015	mg/L		08/24/20 09:13	08/24/20 22:16	1

Lab Sample ID: LCS 480-546229/2-A
Matrix: Water
Analysis Batch: 546633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.65		mg/L		97	80 - 120
Antimony	0.200	0.200		mg/L		100	80 - 120
Arsenic	0.200	0.203		mg/L		101	80 - 120
Barium	0.200	0.213	^	mg/L		107	80 - 120
Beryllium	0.200	0.199		mg/L		99	80 - 120
Boron	0.200	0.205		mg/L		103	80 - 120
Cadmium	0.200	0.194		mg/L		97	80 - 120
Calcium	10.0	9.69		mg/L		97	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.200	0.187		mg/L		93	80 - 120
Copper	0.200	0.198		mg/L		99	80 - 120
Iron	10.0	9.62		mg/L		96	80 - 120
Lead	0.200	0.192		mg/L		96	80 - 120
Magnesium	10.0	9.55		mg/L		96	80 - 120
Manganese	0.200	0.198		mg/L		99	80 - 120
Nickel	0.200	0.191		mg/L		95	80 - 120
Potassium	10.0	9.40		mg/L		94	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0484		mg/L		97	80 - 120
Sodium	10.0	9.96		mg/L		99	80 - 120
Thallium	0.200	0.195		mg/L		97	80 - 120
Vanadium	0.200	0.204		mg/L		102	80 - 120
Zinc	0.200	0.207		mg/L		103	80 - 120

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546633

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546229

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	10.00		mg/L		100	75 - 125
Antimony	ND		0.200	0.216		mg/L		108	75 - 125
Arsenic	ND		0.200	0.216		mg/L		108	75 - 125
Barium	1.7	^	0.200	1.93	4 ^	mg/L		122	75 - 125
Beryllium	ND		0.200	0.207		mg/L		103	75 - 125
Boron	1.9	B	0.200	2.13	4	mg/L		98	75 - 125
Cadmium	ND		0.200	0.208		mg/L		104	75 - 125
Calcium	269		10.0	278.3	4	mg/L		91	75 - 125
Chromium	0.0018	J	0.200	0.202		mg/L		100	75 - 125
Cobalt	ND		0.200	0.201		mg/L		101	75 - 125
Copper	0.0019	J	0.200	0.212		mg/L		105	75 - 125

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

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546633

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546229

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	3.5		10.0	12.52		mg/L		91	75 - 125
Lead	0.0034	J	0.200	0.209		mg/L		103	75 - 125
Magnesium	177		10.0	186.5	4	mg/L		94	75 - 125
Manganese	0.54		0.200	0.732		mg/L		94	75 - 125
Nickel	ND		0.200	0.204		mg/L		102	75 - 125
Potassium	40.1		10.0	50.06	4	mg/L		99	75 - 125
Selenium	ND		0.200	0.208		mg/L		104	75 - 125
Silver	ND		0.0500	0.0517		mg/L		103	75 - 125
Sodium	153		10.0	164.8	4	mg/L		113	75 - 125
Thallium	ND		0.200	0.204		mg/L		102	75 - 125
Vanadium	ND		0.200	0.212		mg/L		106	75 - 125
Zinc	ND		0.200	0.204		mg/L		102	75 - 125

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546633

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546229

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.79		mg/L		98	75 - 125	2	20
Antimony	ND		0.200	0.212		mg/L		106	75 - 125	2	20
Arsenic	ND		0.200	0.214		mg/L		107	75 - 125	1	20
Barium	1.7	^	0.200	1.92	^ 4	mg/L		122	75 - 125	0	20
Beryllium	ND		0.200	0.204		mg/L		102	75 - 125	1	20
Boron	1.9	B	0.200	2.11	4	mg/L		90	75 - 125	1	20
Cadmium	ND		0.200	0.206		mg/L		103	75 - 125	1	20
Calcium	269		10.0	276.9	4	mg/L		77	75 - 125	0	20
Chromium	0.0018	J	0.200	0.199		mg/L		98	75 - 125	1	20
Cobalt	ND		0.200	0.198		mg/L		99	75 - 125	2	20
Copper	0.0019	J	0.200	0.209		mg/L		103	75 - 125	2	20
Iron	3.5		10.0	12.47		mg/L		90	75 - 125	0	20
Lead	0.0034	J	0.200	0.206		mg/L		101	75 - 125	1	20
Magnesium	177		10.0	186.3	4	mg/L		92	75 - 125	0	20
Manganese	0.54		0.200	0.726		mg/L		91	75 - 125	1	20
Nickel	ND		0.200	0.201		mg/L		101	75 - 125	2	20
Potassium	40.1		10.0	49.53	4	mg/L		94	75 - 125	1	20
Selenium	ND		0.200	0.204		mg/L		102	75 - 125	2	20
Silver	ND		0.0500	0.0509		mg/L		102	75 - 125	2	20
Sodium	153		10.0	164.8	4	mg/L		113	75 - 125	0	20
Thallium	ND		0.200	0.201		mg/L		100	75 - 125	2	20
Vanadium	ND		0.200	0.210		mg/L		105	75 - 125	1	20
Zinc	ND		0.200	0.202		mg/L		101	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-546496/1-A
Matrix: Water
Analysis Batch: 546570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/24/20 13:08	08/24/20 15:49	1

Lab Sample ID: LCS 480-546496/2-A
Matrix: Water
Analysis Batch: 546570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00693		mg/L		104	80 - 120

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546570

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00672		mg/L		101	80 - 120

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546570

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA
Prep Batch: 546496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00662		mg/L		99	80 - 120	1	20

Lab Sample ID: MB 480-546680/1-A
Matrix: Water
Analysis Batch: 546773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/20 12:57	08/25/20 15:39	1

Lab Sample ID: LCS 480-546680/2-A
Matrix: Water
Analysis Batch: 546773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00720		mg/L		108	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-546545/4
Matrix: Water
Analysis Batch: 546545

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			08/24/20 23:46	1
Chloride	ND		0.50	0.28	mg/L			08/24/20 23:46	1
Sulfate	ND		2.0	0.35	mg/L			08/24/20 23:46	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-546545/3
Matrix: Water
Analysis Batch: 546545

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	5.40		mg/L		108	90 - 110		
Chloride			50.0	51.94		mg/L		104	90 - 110		
Sulfate			50.0	51.82		mg/L		104	90 - 110		

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546545

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Bromide	ND		50.0	52.26		mg/L		105	80 - 120		
Chloride	252		500	733.7		mg/L		96	81 - 120		
Sulfate	4.2	J	500	496.1		mg/L		98	80 - 120		

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546545

Client Sample ID: 8-MON-009-003-01
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		50.0	51.58		mg/L		103	80 - 120	1	15
Chloride	252		500	729.0		mg/L		95	81 - 120	1	15
Sulfate	4.2	J	500	494.0		mg/L		98	80 - 120	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-546280/51
Matrix: Water
Analysis Batch: 546280

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			08/21/20 10:17	1

Lab Sample ID: MB 480-546280/75
Matrix: Water
Analysis Batch: 546280

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			08/21/20 10:37	1

Lab Sample ID: LCS 480-546280/52
Matrix: Water
Analysis Batch: 546280

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	1.02		mg/L		102	90 - 110		

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-546280/76
Matrix: Water
Analysis Batch: 546280

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	1.02		mg/L		102	90 - 110		

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546280

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	7.5		1.00	8.85	4	mg/L		140	90 - 110		

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546280

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	7.5		1.00	8.50	4	mg/L		105	90 - 110	4	20

Method: 410.4 - COD

Lab Sample ID: MB 480-547331/28
Matrix: Water
Analysis Batch: 547331

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			08/27/20 21:24	1

Lab Sample ID: MB 480-547331/4
Matrix: Water
Analysis Batch: 547331

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			08/27/20 21:24	1

Lab Sample ID: LCS 480-547331/29
Matrix: Water
Analysis Batch: 547331

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	24.14		mg/L		97	90 - 110		

Lab Sample ID: LCS 480-547331/5
Matrix: Water
Analysis Batch: 547331

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	25.99		mg/L		104	90 - 110		

Method: 410.4 - COD (Continued)

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 547331

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	100	F1	50.0	122.2	F1	mg/L		44	75 - 125

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 547331

Client Sample ID: 8-MON-009-003-01
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	100	F1	50.0	117.6	F1	mg/L		34	75 - 125	4	20

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

Lab Sample ID: MB 480-546370/51
Matrix: Water
Analysis Batch: 546370

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			08/21/20 21:42	1

Lab Sample ID: LCS 480-546370/52
Matrix: Water
Analysis Batch: 546370

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	62.09		mg/L		103	90 - 110

Lab Sample ID: MB 480-546672/4
Matrix: Water
Analysis Batch: 546672

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			08/22/20 16:14	1

Lab Sample ID: LCS 480-546672/5
Matrix: Water
Analysis Batch: 546672

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	61.34		mg/L		102	90 - 110

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546672

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	30.7		23.3	56.89		mg/L		113	54 - 131

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

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546672

Client Sample ID: 8-MON-009-003-01
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	30.7		23.3	57.61		mg/L		116	54 - 131	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-546597/4
Matrix: Water
Analysis Batch: 546597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			08/24/20 10:51	1

Lab Sample ID: MB 480-546597/54
Matrix: Water
Analysis Batch: 546597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			08/24/20 17:13	1

Lab Sample ID: MB 480-546597/77
Matrix: Water
Analysis Batch: 546597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			08/24/20 20:10	1

Lab Sample ID: LCS 480-546597/5
Matrix: Water
Analysis Batch: 546597

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	97.60		mg/L		98	90 - 110

Lab Sample ID: LCS 480-546597/55
Matrix: Water
Analysis Batch: 546597

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	96.80		mg/L		97	90 - 110

Lab Sample ID: LCS 480-546597/78
Matrix: Water
Analysis Batch: 546597

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	98.48		mg/L		98	90 - 110

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546597

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	1540		100	1434	4	mg/L		-106	60 - 140

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546597

Client Sample ID: 8-MON-009-003-01
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	1540		100	1417	4	mg/L		-123	60 - 140	1	20

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-546550/3
Matrix: Water
Analysis Batch: 546550

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total hardness as CaCO3	ND		2.0	0.53	mg/L			08/24/20 13:37	1

Lab Sample ID: LCS 480-546550/4
Matrix: Water
Analysis Batch: 546550

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total hardness as CaCO3	242	244.0		mg/L		101	90 - 110

Lab Sample ID: 480-174019-1 MS
Matrix: Water
Analysis Batch: 546550

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total hardness as CaCO3	1400		500	1980		mg/L		116	74 - 130

Lab Sample ID: 480-174019-1 MSD
Matrix: Water
Analysis Batch: 546550

Client Sample ID: 8-MON-009-003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total hardness as CaCO3	1400		500	1950		mg/L		110	74 - 130	2	15

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-546161/1
Matrix: Water
Analysis Batch: 546161

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			08/20/20 18:01	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-546161/2
Matrix: Water
Analysis Batch: 546161

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	502	492.0		mg/L		98	85 - 115

GC/MS VOA

Analysis Batch: 546414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	8260C	
480-174019-2	8-MON-009-003-02	Total/NA	Water	8260C	
480-174019-3	8-MON-009-003-03	Total/NA	Water	8260C	
480-174019-6	8-MON-009-003-06	Total/NA	Water	8260C	
MB 480-546414/7	Method Blank	Total/NA	Water	8260C	
LCS 480-546414/5	Lab Control Sample	Total/NA	Water	8260C	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	8260C	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 546226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	3510C	
480-174019-2	8-MON-009-003-02	Total/NA	Water	3510C	
480-174019-3	8-MON-009-003-03	Total/NA	Water	3510C	
MB 480-546226/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-546226/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	3510C	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	3510C	

Analysis Batch: 546349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	8270D SIM ID	546226
480-174019-2	8-MON-009-003-02	Total/NA	Water	8270D SIM ID	546226
480-174019-3	8-MON-009-003-03	Total/NA	Water	8270D SIM ID	546226
MB 480-546226/1-A	Method Blank	Total/NA	Water	8270D SIM ID	546226
LCS 480-546226/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	546226
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	8270D SIM ID	546226
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	8270D SIM ID	546226

Prep Batch: 546427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	3510C	
480-174019-2	8-MON-009-003-02	Total/NA	Water	3510C	
MB 480-546427/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-546427/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	3510C	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	3510C	

Analysis Batch: 546675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	8270D_LL_PAH	546427
480-174019-2	8-MON-009-003-02	Total/NA	Water	8270D_LL_PAH	546427
MB 480-546427/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	546427
LCS 480-546427/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	546427
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	8270D_LL_PAH	546427
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	8270D_LL_PAH	546427

GC/MS Semi VOA

Prep Batch: 546928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-3	8-MON-009-003-03	Total/NA	Water	3510C	
MB 480-546928/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-546928/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 547071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-3	8-MON-009-003-03	Total/NA	Water	8270D_LL_PAH	546928
MB 480-546928/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	546928
LCS 480-546928/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	546928

LCMS

Prep Batch: 158246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1 - DL	8-MON-009-003-01	Total/NA	Water	3535	
480-174019-1	8-MON-009-003-01	Total/NA	Water	3535	
480-174019-2	8-MON-009-003-02	Total/NA	Water	3535	
480-174019-2 - DL	8-MON-009-003-02	Total/NA	Water	3535	
480-174019-3	8-MON-009-003-03	Total/NA	Water	3535	
480-174019-3 - DL	8-MON-009-003-03	Total/NA	Water	3535	
480-174019-4	8-MON-009-003-04	Total/NA	Water	3535	
480-174019-5	8-MON-009-003-05	Total/NA	Water	3535	
MB 200-158246/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-158246/2-A	Lab Control Sample	Total/NA	Water	3535	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	3535	
480-174019-1 MS - DL	8-MON-009-003-01	Total/NA	Water	3535	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	3535	
480-174019-1 MSD - DL	8-MON-009-003-01	Total/NA	Water	3535	

Analysis Batch: 158290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	537 (modified)	158246
480-174019-2	8-MON-009-003-02	Total/NA	Water	537 (modified)	158246
480-174019-3	8-MON-009-003-03	Total/NA	Water	537 (modified)	158246
480-174019-4	8-MON-009-003-04	Total/NA	Water	537 (modified)	158246
480-174019-5	8-MON-009-003-05	Total/NA	Water	537 (modified)	158246
MB 200-158246/1-A	Method Blank	Total/NA	Water	537 (modified)	158246
LCS 200-158246/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	158246
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	537 (modified)	158246
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	537 (modified)	158246

Analysis Batch: 158307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1 - DL	8-MON-009-003-01	Total/NA	Water	537 (modified)	158246
480-174019-2 - DL	8-MON-009-003-02	Total/NA	Water	537 (modified)	158246
480-174019-3 - DL	8-MON-009-003-03	Total/NA	Water	537 (modified)	158246
480-174019-4	8-MON-009-003-04	Total/NA	Water	537 (modified)	158246
480-174019-1 MS - DL	8-MON-009-003-01	Total/NA	Water	537 (modified)	158246
480-174019-1 MSD - DL	8-MON-009-003-01	Total/NA	Water	537 (modified)	158246

Metals

Prep Batch: 546227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-3	8-MON-009-003-03	Total/NA	Water	3005A	
MB 480-546227/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-546227/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-546227/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Prep Batch: 546229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	3005A	
480-174019-2	8-MON-009-003-02	Total/NA	Water	3005A	
MB 480-546229/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-546229/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	3005A	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	3005A	

Prep Batch: 546496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	7470A	
480-174019-2	8-MON-009-003-02	Total/NA	Water	7470A	
MB 480-546496/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-546496/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	7470A	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	7470A	

Analysis Batch: 546570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	7470A	546496
480-174019-2	8-MON-009-003-02	Total/NA	Water	7470A	546496
MB 480-546496/1-A	Method Blank	Total/NA	Water	7470A	546496
LCS 480-546496/2-A	Lab Control Sample	Total/NA	Water	7470A	546496
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	7470A	546496
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	7470A	546496

Analysis Batch: 546628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-3	8-MON-009-003-03	Total/NA	Water	6010C	546227
MB 480-546227/1-A	Method Blank	Total/NA	Water	6010C	546227
LCS 480-546227/2-A	Lab Control Sample	Total/NA	Water	6010C	546227
LCSD 480-546227/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	546227

Analysis Batch: 546633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	6010C	546229
480-174019-2	8-MON-009-003-02	Total/NA	Water	6010C	546229
MB 480-546229/1-A	Method Blank	Total/NA	Water	6010C	546229
LCS 480-546229/2-A	Lab Control Sample	Total/NA	Water	6010C	546229
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	6010C	546229
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	6010C	546229

Prep Batch: 546680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-3	8-MON-009-003-03	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 546680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-546680/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-546680/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 546773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-3	8-MON-009-003-03	Total/NA	Water	7470A	546680
MB 480-546680/1-A	Method Blank	Total/NA	Water	7470A	546680
LCS 480-546680/2-A	Lab Control Sample	Total/NA	Water	7470A	546680

General Chemistry

Analysis Batch: 546161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	SM 2540C	
480-174019-2	8-MON-009-003-02	Total/NA	Water	SM 2540C	
480-174019-3	8-MON-009-003-03	Total/NA	Water	SM 2540C	
MB 480-546161/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-546161/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 546280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	350.1	
480-174019-2	8-MON-009-003-02	Total/NA	Water	350.1	
480-174019-3	8-MON-009-003-03	Total/NA	Water	350.1	
MB 480-546280/51	Method Blank	Total/NA	Water	350.1	
MB 480-546280/75	Method Blank	Total/NA	Water	350.1	
LCS 480-546280/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-546280/76	Lab Control Sample	Total/NA	Water	350.1	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	350.1	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	350.1	

Analysis Batch: 546370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-3	8-MON-009-003-03	Total/NA	Water	9060A	
MB 480-546370/51	Method Blank	Total/NA	Water	9060A	
LCS 480-546370/52	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 546545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	300.0	
480-174019-2	8-MON-009-003-02	Total/NA	Water	300.0	
480-174019-3	8-MON-009-003-03	Total/NA	Water	300.0	
MB 480-546545/4	Method Blank	Total/NA	Water	300.0	
LCS 480-546545/3	Lab Control Sample	Total/NA	Water	300.0	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	300.0	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	300.0	

Analysis Batch: 546550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	SM 2340C	
480-174019-2	8-MON-009-003-02	Total/NA	Water	SM 2340C	

General Chemistry (Continued)

Analysis Batch: 546550 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-3	8-MON-009-003-03	Total/NA	Water	SM 2340C	
MB 480-546550/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-546550/4	Lab Control Sample	Total/NA	Water	SM 2340C	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	SM 2340C	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	SM 2340C	

Analysis Batch: 546597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	SM 2320B	
480-174019-2	8-MON-009-003-02	Total/NA	Water	SM 2320B	
480-174019-3	8-MON-009-003-03	Total/NA	Water	SM 2320B	
MB 480-546597/4	Method Blank	Total/NA	Water	SM 2320B	
MB 480-546597/54	Method Blank	Total/NA	Water	SM 2320B	
MB 480-546597/77	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-546597/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-546597/55	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-546597/78	Lab Control Sample	Total/NA	Water	SM 2320B	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	SM 2320B	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	SM 2320B	

Analysis Batch: 546672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	9060A	
480-174019-2	8-MON-009-003-02	Total/NA	Water	9060A	
MB 480-546672/4	Method Blank	Total/NA	Water	9060A	
LCS 480-546672/5	Lab Control Sample	Total/NA	Water	9060A	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	9060A	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	9060A	

Analysis Batch: 547331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174019-1	8-MON-009-003-01	Total/NA	Water	410.4	
480-174019-2	8-MON-009-003-02	Total/NA	Water	410.4	
480-174019-3	8-MON-009-003-03	Total/NA	Water	410.4	
MB 480-547331/28	Method Blank	Total/NA	Water	410.4	
MB 480-547331/4	Method Blank	Total/NA	Water	410.4	
LCS 480-547331/29	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-547331/5	Lab Control Sample	Total/NA	Water	410.4	
480-174019-1 MS	8-MON-009-003-01	Total/NA	Water	410.4	
480-174019-1 MSD	8-MON-009-003-01	Total/NA	Water	410.4	

Lab Chronicle

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

Client Sample ID: 8-MON-009-003-01

Lab Sample ID: 480-174019-1

Date Collected: 08/19/20 10:10

Matrix: Water

Date Received: 08/20/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	546414	08/24/20 12:50	AMM	TAL BUF
Total/NA	Prep	3510C			546226	08/21/20 08:30	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	546349	08/22/20 20:10	RJS	TAL BUF
Total/NA	Prep	3510C			546427	08/24/20 07:49	SMP	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	546675	08/26/20 08:41	PJQ	TAL BUF
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158290	08/26/20 20:58	BWC	TAL BUR
Total/NA	Prep	3535	DL		158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)	DL	100	158307	08/27/20 14:12	BWC	TAL BUR
Total/NA	Prep	3005A			546229	08/24/20 09:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	546633	08/24/20 23:55	LMH	TAL BUF
Total/NA	Prep	7470A			546496	08/24/20 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	546570	08/24/20 16:20	BMB	TAL BUF
Total/NA	Analysis	300.0		10	546545	08/25/20 01:11	IMZ	TAL BUF
Total/NA	Analysis	350.1		5	546280	08/21/20 10:49	CLT	TAL BUF
Total/NA	Analysis	410.4		1	547331	08/27/20 21:24	CSS	TAL BUF
Total/NA	Analysis	9060A		1	546672	08/22/20 21:50	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	546597	08/24/20 11:21	BEF	TAL BUF
Total/NA	Analysis	SM 2340C		1	546550	08/24/20 13:37	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	546161	08/20/20 18:01	E1T	TAL BUF

Client Sample ID: 8-MON-009-003-02

Lab Sample ID: 480-174019-2

Date Collected: 08/19/20 10:15

Matrix: Water

Date Received: 08/20/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	546414	08/24/20 13:13	AMM	TAL BUF
Total/NA	Prep	3510C			546226	08/21/20 08:30	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	546349	08/22/20 20:33	RJS	TAL BUF
Total/NA	Prep	3510C			546427	08/24/20 07:49	SMP	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	546675	08/26/20 10:33	PJQ	TAL BUF
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158290	08/26/20 21:23	BWC	TAL BUR
Total/NA	Prep	3535	DL		158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)	DL	100	158307	08/27/20 14:37	BWC	TAL BUR
Total/NA	Prep	3005A			546229	08/24/20 09:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	546633	08/25/20 00:26	LMH	TAL BUF
Total/NA	Prep	7470A			546496	08/24/20 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	546570	08/24/20 16:25	BMB	TAL BUF
Total/NA	Analysis	300.0		10	546545	08/25/20 03:32	IMZ	TAL BUF
Total/NA	Analysis	350.1		5	546280	08/21/20 10:52	CLT	TAL BUF
Total/NA	Analysis	410.4		1	547331	08/27/20 21:24	CSS	TAL BUF
Total/NA	Analysis	9060A		1	546672	08/22/20 23:16	CLA	TAL BUF

Lab Chronicle

Client: Parsons Corporation
Job ID: 480-174019-1
Project/Site: 8 MON-009 Lyndon Road LF

Client Sample ID: 8-MON-009-003-02
Lab Sample ID: 480-174019-2
Date Collected: 08/19/20 10:15
Matrix: Water
Date Received: 08/20/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	546597	08/24/20 21:21	BEF	TAL BUF
Total/NA	Analysis	SM 2340C		1	546550	08/24/20 13:37	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	546161	08/20/20 18:01	E1T	TAL BUF

Client Sample ID: 8-MON-009-003-03
Lab Sample ID: 480-174019-3
Date Collected: 08/19/20 15:30
Matrix: Water
Date Received: 08/20/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	546414	08/24/20 13:36	AMM	TAL BUF
Total/NA	Prep	3510C			546226	08/21/20 08:30	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	546349	08/22/20 20:55	RJS	TAL BUF
Total/NA	Prep	3510C			546928	08/26/20 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	547071	08/27/20 23:09	PJQ	TAL BUF
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158290	08/26/20 21:31	BWC	TAL BUR
Total/NA	Prep	3535	DL		158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)	DL	5	158307	08/27/20 14:45	BWC	TAL BUR
Total/NA	Prep	3005A			546227	08/21/20 10:00	ADM	TAL BUF
Total/NA	Analysis	6010C		1	546628	08/24/20 14:42	LMH	TAL BUF
Total/NA	Prep	7470A			546680	08/25/20 12:57	BMB	TAL BUF
Total/NA	Analysis	7470A		1	546773	08/25/20 15:41	BMB	TAL BUF
Total/NA	Analysis	300.0		10	546545	08/25/20 03:47	IMZ	TAL BUF
Total/NA	Analysis	350.1		2	546280	08/21/20 10:53	CLT	TAL BUF
Total/NA	Analysis	410.4		1	547331	08/27/20 21:24	CSS	TAL BUF
Total/NA	Analysis	9060A		1	546370	08/22/20 08:17	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	546597	08/24/20 21:35	BEF	TAL BUF
Total/NA	Analysis	SM 2340C		1	546550	08/24/20 13:37	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	546161	08/20/20 18:01	E1T	TAL BUF

Client Sample ID: 8-MON-009-003-04
Lab Sample ID: 480-174019-4
Date Collected: 08/19/20 16:00
Matrix: Water
Date Received: 08/20/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158290	08/26/20 21:39	BWC	TAL BUR
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158307	08/27/20 14:54	BWC	TAL BUR

Lab Chronicle

Client: Parsons Corporation
Job ID: 480-174019-1
Project/Site: 8 MON-009 Lyndon Road LF

Client Sample ID: 8-MON-009-003-05
Lab Sample ID: 480-174019-5

Date Collected: 08/19/20 16:05
Matrix: Water
Date Received: 08/20/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158290	08/26/20 21:48	BWC	TAL BUR

Client Sample ID: 8-MON-009-003-06
Lab Sample ID: 480-174019-6

Date Collected: 08/19/20 00:00
Matrix: Water
Date Received: 08/20/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	546414	08/24/20 13:59	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: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

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	04-02-21

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
SM 2340C		Water	Total hardness as CaCO3

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	04-01-21

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)

Method Summary

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174019-1

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
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 2340C	Hardness, Total (mg/l as CaC03)	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: Parsons Corporation
Job ID: 480-174019-1
Project/Site: 8 MON-009 Lyndon Road LF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-174019-1	8-MON-009-003-01	Water	08/19/20 10:10	08/20/20 08:00	
480-174019-2	8-MON-009-003-02	Water	08/19/20 10:15	08/20/20 08:00	
480-174019-3	8-MON-009-003-03	Water	08/19/20 15:30	08/20/20 08:00	
480-174019-4	8-MON-009-003-04	Water	08/19/20 16:00	08/20/20 08:00	
480-174019-5	8-MON-009-003-05	Water	08/19/20 16:05	08/20/20 08:00	
480-174019-6	8-MON-009-003-06	Water	08/19/20 00:00	08/20/20 08:00	

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information		Section B Client Information		COC #:	8-MON-009-003
Lab Name:	TestAmerica	Company: Parsons		Project Name:	ILI - Region 8
Attention:	John Schove	Attention: George Moreau		Project Site:	Lyndon Rd LF
Address:	10 Hazelwood Drive Amherst, NY 14228-2298	Address:	301 Plainfield Road, Suite 350 Syracuse, NY 13212	Project Number:	~~450619~~ 452148
Phone:	(716) 504-9838	Phone:	315-552-9715		
Email:	John.Schove@testamericainc.com	Email:	George.H.Moreau@parsons.com		

Section C Deliverable Requirements

Report To: George.H.Moreau@parsons.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

Purchase Order No:

TAT - 10 Day

Section D Additional Information

Preservative codes (for water only):

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.	MS/MSD	Composite (Y/N)	PFAS Modified 537	Modified Baseline VOCs 8260	PAHs 8270SIM	1, 4 - Dioxane 8270SIM	Mod Bsln Met/Hg 6010/7470	Hard-SM20 2340C	Ammonia/COD 350.1/410.4	TOC 9060A	SO4/CHL/BRO 300.0	TDS SM2540D	Alkalinity SM20 2320B
Preservative codes												0	1	0	0	2	2	3	1	0	0	0
										#Bottles		2	3	2	2	1	1	1	2	1	1	1
1	8-MON-009-MW-01	~~17.5~~ 13	23	8-MON-009-003-01	8/19/20	1010	WG	N	51	✓		/	/	/	/	/	/	/	/	/	/	/
2	8-MON-009-MW-01 ~~Field QC~~	13	23	8-MON-009-003-02	8/19/20	1015	WG	FD	17			/	/	/	/	/	/	/	/	/	/	/
3	8-MON-009-MW-04	19	29	8-MON-009-003-03	8/19/20	1530	WG	N	17			/	/	/	/	/	/	/	/	/	/	/
4	Field QC	-	-	8-MON-009-003-04	8/19/20	1600	WQ	EB	2			/										
5	Field QC	-	-	8-MON-009-003-05	8/19/20	1605	WQ	FB	2			/										
6	Field QC	-	-	8-MON-009-003-06	8/19/20	-	WQ	TB	~~2~~ 1 AC				/									
7	~~Field QC~~	~~-~~	~~-~~	~~8-MON-009-003-07~~	~~8/14/20~~	~~-~~	~~WQ~~	~~TB~~	~~1~~			AC	~~1~~									
8																						
9	RE																					
10	8.19.20																					

480-174019 Chain of Custody

Syracuse

#225

Special Instructions:

From Syr: PFAS → BUF, hrs → BUF -RE

Samplers Name: Alison Pcok	Company: Parsons	Relinquished By: Allison	Company: Parsons	Cooler Temp.:	Custody Seals Intact: Yes ☐ No ☐
	Date/Time: 8/19/20 ~~1700~~ 1800 RE		Date/Time: 8/19/20 ~~1700~~ 1800 RE	Rec'd on Ice: Yes ☐ No ☐	Samples Intact: Yes ☐ No ☐
Shipment Method:	Shipment Tracking No:	Accepted By: R. English	Company: Syr	Cooler Temp.:	Custody Seals Intact: Yes ☐ No ☐
	Date/Time:		Date/Time: 8-19-20, 1800	Rec'd on Ice: Yes ☐ No ☐	Samples Intact: Yes ☐ No ☐

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):

Reling: R. English, 8-19-20, 1900

TAB 8/20/20 0800

4.1 3.6 3.2 #1 ICE

Page 1 of 1

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information		Section B Client Information			
Lab Name:	TestAmerica	Company:	Parsons	COC #:	8-MON-009-003
Attention:	John Schove	Attention:	George Moreau	Project Name:	ILI - Region 8
Address:	10 Hazelwood Drive Amherst, NY 14228-2298	Address:	301 Plainfield Road, Suite 350 Syracuse, NY 13212	Project Site:	Lyndon Rd. LF
Phone:	(716) 504-9838	Phone:	315-552-9715	Project Number:	~~450619~~ 452148
Email:	John.Schove@testamericainc.com	Email:	George.H.Moreau@parsons.com		

Section C Deliverable Requirements

Report To: George.H.Moreau@parsons.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

Purchase Order No:

TAT - 10 Day

Section D Additional Information

Preservative codes (for water only):

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.	MS/MSD	Composite (Y/N)	PFAS Modified 537	Modified Baseline VOCs 8260	PAHs 8270SIM	1, 4 - Dioxane 8270SIM	Mod Bsln Met/Hg 6010/7470	Hard-SM20 2340C	Ammonia/COD 350.1/410.4	TOC 9060A	SO4/CHL/BRO 300.0	TDS SM2540D	Alkalinity SM20 2320B
Preservative codes												0	1	0	0	2	2	3	1	0	0	0
#Bottles												2	3	2	2	1	1	1	2	1	1	1
1	8-MON-009-MW-01	~~[illegible]~~ 13	23	8-MON-009-003-01	8/19/20	1010	WG	N	51	✓		/	/	/	/	/	/	/	/	/	/	/
2	~~Field QC~~ 8-MON-009-MW-01	13	23	8-MON-009-003-02	8/19/20	1015	WG	FD	17			/	/	/	/	/	/	/	/	/	/	/
3	8-MON-009-MW-04	19	29	8-MON-009-003-03	8/19/20	1530	WG	N	17			/	/	/	/	/	/	/	/	/	/	/
4	Field QC	-	-	8-MON-009-003-04	8/19/20	1600	WQ	EB	2			/										
5	Field QC	-	-	8-MON-009-003-05	8/19/20	1605	WQ	FB	2			/										
6	Field QC	-	-	8-MON-009-003-06	8/19/20	-	WQ	TB	~~3~~ 1				/									
7	~~Field QC~~	~~-~~	~~-~~	~~8-MON-009-003-07~~	~~8/19/20~~	-	~~WQ~~	~~TB~~	~~1~~			AC	L									
8																						
9	RE																					
10	8.19.20																					

480-174019 Chain of Custody

Syracuse

#225

Special Instructions:

From Syr: PFAS → BUF; hn1 → BUF. -RE

Samplers Name:	Company:	Relinquished By:	Company:	Cooler Temp.:	Custody Seals Intact: Yes ☐ No ☐
Alison Cook	Parsons	[signature]	Parsons	Rec'd on Ice: Yes ☐ No ☐	Samples Intact: Yes ☐ No ☐
	Date/Time: 8/19/20 ~~1700~~ 1800 RC		Date/Time: 8/19/20 ~~1700~~ 1800 RC		
Shipment Method:	Shipment Tracking No:	Accepted By:	Company: Syr	Cooler Temp.:	Custody Seals Intact: Yes ☐ No ☐
	Date/Time:	R. Englick	Date/Time: 8-19-20, 1800	Rec'd on Ice: Yes ☐ No ☐	Samples Intact: Yes ☐ No ☐

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):

Relinq: R Englick, 8-19-20, 1900. [signature] 8/20/2020 10:39 TABUSL

Page 1 of 1

ORIGIN ID:SYRA (315) 431-0171
SYR SERVICE CENTER
EUROFINS TESTAMERICA
118 BOSS RD

SYRACUSE, NY 13211
UNITED STATES US

SHIP DATE: 19AUG20
ACTWGT: 12.00 LB MAN
CAD: 0883373/CAFE3313

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE SUITE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: PARSONS LYNDON 1COOLER

565C2/7709/05A2

FedEx
Express

E

J191219082001uv

THU - 20 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 1870 7198 3145

NL BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-174019-1

Login Number: 174019

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

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	PARSON
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-174019-1

Login Number: 174019
List Number: 2
Creator: Jaffe, Nat S

List Source: Eurofins TestAmerica, Burlington
List Creation: 08/20/20 04:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1318201
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	1.2ºC
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	AC
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-174095-1
Client Project/Site: 8 MON-009 Lyndon Road LF

For:
Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

Attn: Mr. George Moreau

Joseph V. Giacomazza

Authorized for release by:
9/3/2020 4:15:01 PM

Joe Giacomazza, Project Manager I
(716)691-2600
joe.giacomazza@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Parsons Corporation
Job ID: 480-174095-1
Project/Site: 8 MON-009 Lyndon Road LF

Qualifiers

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.
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-174095-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-174095-1

Comments
No additional comments.

Receipt
The samples were received on 8/21/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-546967 recovered outside acceptance criteria, low biased, for Chlorodibromomethane, 2-Butanone (MEK), and Vinyl acetate. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: 8-MON-009-004-01 (480-174095-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: 8-MON-009-004-01 (480-174095-1). pH is 7.

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

GC/MS Semi VOA
Method 8270D_LL_PAH: The following compound has been spiked at a level above the upper range of the initial calibration: Dibenz(a,h)anthracene. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-546427 and analytical batch 480-546675 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-546427/2-A)

Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: 8-MON-009-004-01 (480-174095-1). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample 8-MON-009-004-01 (480-174095-1) 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.

Method 8270D_LL_PAH: The following compound has been spiked at a level above the upper range of the initial calibration: Dibenz(a,h)anthracene. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-546928 and analytical batch 480-547071 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-546928/2-A)

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 reported with elevated reporting limits for all analytes: 8-MON-009-004-01 (480-174095-1). 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
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA

Job ID: 480-174095-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

solution. 8-MON-009-004-01 (480-174095-1), (LCS 480-546458/2-A) and (MB 480-546458/1-A)

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

LCMS

Method 537 (modified): The method blank for preparation batch 200-158246 and analytical batch 200-158290 contained Perfluorobutanesulfonic acid (PFBS) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method 537 (modified): Results for sample 8-MON-009-004-01 (480-174095-1) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

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

General Chemistry

Method 9060A: The reference method requires samples to be preserved to a pH below two. The following sample was received with insufficient preservation at a pH above two: 8-MON-009-004-01 (480-174095-1). The sample(s) was preserved to the appropriate pH in the laboratory prior to analysis.

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 8-MON-009-004-01 (480-174095-1). The reporting limits (RLs) have been adjusted proportionately.

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: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174095-1

Client Sample ID: 8-MON-009-004-01 — Lab Sample ID: 480-174095-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	16		10	7.5	ug/L	10		8260C	Total/NA
1,4-Dioxane	14	E	1.0	0.50	ug/L	5		8270D SIM ID	Total/NA
Acenaphthene	1.6		0.50	0.30	ug/L	1		8270D_LL_PAH	Total/NA
Fluorene	0.79		0.50	0.37	ug/L	1		8270D_LL_PAH	Total/NA
Phenanthrene	0.51		0.50	0.38	ug/L	1		8270D_LL_PAH	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	63		18	1.4	ng/L	1		537 (modified)	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	21		18	1.5	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	31	B	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.0	J	1.8	0.70	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	7.0		1.8	0.86	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	120		1.8	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	49		1.8	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	190		1.8	0.69	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	7.8		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	170		1.8	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	120		1.8	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	1200		18	9.1	ng/L	10		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1500		18	7.3	ng/L	10		537 (modified)	Total/NA
Barium	1.5	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	2.9		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	256		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0020	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0017	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	5.6		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	177		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.21	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0023	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	37.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	78.3		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0032	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0020	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Chloride	50.6		5.0	2.8	mg/L	10		300.0	Total/NA
Ammonia	8.2		0.10	0.045	mg/L	5		350.1	Total/NA
Chemical Oxygen Demand	131		20.0	10.0	mg/L	2		410.4	Total/NA
Total Organic Carbon	39.7		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	1580		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	12.0	B	2.0	0.53	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	1460		20.0	8.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 8-MON-009-004-02 — Lab Sample ID: 480-174095-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.52	J B	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.89	J	1.8	0.68	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.70	J	1.8	0.56	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 8-MON-009-004-03 — Lab Sample ID: 480-174095-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.48	J B	1.8	0.45	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 8-MON-009-004-03 (Continued)
Lab Sample ID: 480-174095-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.66	J	1.8	0.58	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 8-MON-009-004-04
Lab Sample ID: 480-174095-4

No Detections.

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174095-1

Client Sample ID: 8-MON-009-004-01
Date Collected: 08/20/20 11:30
Date Received: 08/21/20 08:00

Lab Sample ID: 480-174095-1
Matrix: Water

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		10	3.5	ug/L			08/27/20 02:23	10
1,1,1-Trichloroethane	ND		10	8.2	ug/L			08/27/20 02:23	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			08/27/20 02:23	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			08/27/20 02:23	10
1,1-Dichloroethane	ND		10	3.8	ug/L			08/27/20 02:23	10
1,1-Dichloroethene	ND		10	2.9	ug/L			08/27/20 02:23	10
1,2,3-Trichloropropane	ND		10	8.9	ug/L			08/27/20 02:23	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			08/27/20 02:23	10
1,2-Dibromoethane	ND		10	7.3	ug/L			08/27/20 02:23	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			08/27/20 02:23	10
1,2-Dichloroethane	ND		10	2.1	ug/L			08/27/20 02:23	10
1,2-Dichloropropane	ND		10	7.2	ug/L			08/27/20 02:23	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			08/27/20 02:23	10
2-Butanone (MEK)	ND		100	13	ug/L			08/27/20 02:23	10
2-Hexanone	ND		50	12	ug/L			08/27/20 02:23	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			08/27/20 02:23	10
Acetone	ND		100	30	ug/L			08/27/20 02:23	10
Acrylonitrile	ND		50	8.3	ug/L			08/27/20 02:23	10
Benzene	ND		10	4.1	ug/L			08/27/20 02:23	10
Bromodichloromethane	ND		10	3.9	ug/L			08/27/20 02:23	10
Bromoform	ND		10	2.6	ug/L			08/27/20 02:23	10
Bromomethane	ND		10	6.9	ug/L			08/27/20 02:23	10
Carbon disulfide	ND		10	1.9	ug/L			08/27/20 02:23	10
Carbon tetrachloride	ND		10	2.7	ug/L			08/27/20 02:23	10
Chlorobenzene	**16**		10	7.5	ug/L			08/27/20 02:23	10
Chlorobromomethane	ND		10	8.7	ug/L			08/27/20 02:23	10
Chloroethane	ND		10	3.2	ug/L			08/27/20 02:23	10
Chloroform	ND		10	3.4	ug/L			08/27/20 02:23	10
Chloromethane	ND		10	3.5	ug/L			08/27/20 02:23	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			08/27/20 02:23	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			08/27/20 02:23	10
Dibromochloromethane	ND		10	3.2	ug/L			08/27/20 02:23	10
Dibromomethane	ND		10	4.1	ug/L			08/27/20 02:23	10
Ethylbenzene	ND		10	7.4	ug/L			08/27/20 02:23	10
Iodomethane	ND		10	3.0	ug/L			08/27/20 02:23	10
m,p-Xylene	ND		20	6.6	ug/L			08/27/20 02:23	10
Methylene Chloride	ND		10	4.4	ug/L			08/27/20 02:23	10
o-Xylene	ND		10	7.6	ug/L			08/27/20 02:23	10
Styrene	ND		10	7.3	ug/L			08/27/20 02:23	10
Tetrachloroethene	ND		10	3.6	ug/L			08/27/20 02:23	10
Toluene	ND		10	5.1	ug/L			08/27/20 02:23	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			08/27/20 02:23	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			08/27/20 02:23	10
trans-1,4-Dichloro-2-butene	ND		10	2.2	ug/L			08/27/20 02:23	10
Trichloroethene	ND		10	4.6	ug/L			08/27/20 02:23	10
Trichlorofluoromethane	ND		10	8.8	ug/L			08/27/20 02:23	10
Vinyl acetate	ND		50	8.5	ug/L			08/27/20 02:23	10
Vinyl chloride	ND		10	9.0	ug/L			08/27/20 02:23	10
Xylenes, Total	ND		20	6.6	ug/L			08/27/20 02:23	10

Client Sample ID: 8-MON-009-004-01
Date Collected: 08/20/20 11:30
Date Received: 08/21/20 08:00

Lab Sample ID: 480-174095-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*08/27/20 02:23*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/27/20 02:23*	*10*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/27/20 02:23*	*10*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/27/20 02:23*	*10*

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	**14**	**E**	1.0	0.50	ug/L		08/24/20 15:02	08/26/20 17:04	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*20*		*15 - 110*	*08/24/20 15:02*	*08/26/20 17:04*	*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	**1.6**		0.50	0.30	ug/L		08/26/20 14:52	08/27/20 22:41	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/26/20 14:52	08/27/20 22:41	1
Anthracene	ND		0.50	0.39	ug/L		08/26/20 14:52	08/27/20 22:41	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/26/20 14:52	08/27/20 22:41	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/26/20 14:52	08/27/20 22:41	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/26/20 14:52	08/27/20 22:41	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/26/20 14:52	08/27/20 22:41	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/26/20 14:52	08/27/20 22:41	1
Chrysene	ND		0.50	0.32	ug/L		08/26/20 14:52	08/27/20 22:41	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/26/20 14:52	08/27/20 22:41	1
Fluoranthene	ND		0.50	0.36	ug/L		08/26/20 14:52	08/27/20 22:41	1
Fluorene	**0.79**		0.50	0.37	ug/L		08/26/20 14:52	08/27/20 22:41	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/26/20 14:52	08/27/20 22:41	1
Naphthalene	ND		0.50	0.42	ug/L		08/26/20 14:52	08/27/20 22:41	1
Phenanthrene	**0.51**		0.50	0.38	ug/L		08/26/20 14:52	08/27/20 22:41	1
Pyrene	ND		0.50	0.36	ug/L		08/26/20 14:52	08/27/20 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*48 - 120*	*08/26/20 14:52*	*08/27/20 22:41*	*1*
Nitrobenzene-d5	*88*		*46 - 120*	*08/26/20 14:52*	*08/27/20 22:41*	*1*
p-Terphenyl-d14	*62*		*24 - 136*	*08/26/20 14:52*	*08/27/20 22:41*	*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	2.6	ng/L		08/25/20 16:17	08/26/20 20:25	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	5.0	ng/L		08/25/20 16:17	08/26/20 20:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**63**		18	1.4	ng/L		08/25/20 16:17	08/26/20 20:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**21**		18	1.5	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorobutanesulfonic acid (PFBS)	**31**	**B**	1.8	0.44	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.81	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorodecanoic acid (PFDA)	**1.0**	**J**	1.8	0.70	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.53	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	**7.0**		1.8	0.86	ng/L		08/25/20 16:17	08/26/20 20:25	1

Client Sample ID: 8-MON-009-004-01
Lab Sample ID: 480-174095-1
Date Collected: 08/20/20 11:30
Matrix: Water
Date Received: 08/21/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**120**		1.8	0.82	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorohexanesulfonic acid (PFHxS)	**49**		1.8	0.72	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorohexanoic acid (PFHxA)	**190**		1.8	0.69	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorononanoic acid (PFNA)	**7.8**		1.8	0.24	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.1	9.1	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorooctanesulfonic acid (PFOS)	**170**		1.8	0.55	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluoropentanoic acid (PFPeA)	**120**		1.8	0.57	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.83	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.54	ng/L		08/25/20 16:17	08/26/20 20:25	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.71	ng/L		08/25/20 16:17	08/26/20 20:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*101*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C2 PFDoA	*107*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C2 PFHxA	*82*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C2 PFUnA	*100*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C2 PFTeDA	*92*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C4 PFBA	*47*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C4 PFOA	*94*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C4 PFOS	*81*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C4 PFHpA	*83*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C5 PFNA	*101*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C5 PFPeA	*68*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
13C8 FOSA	*63*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
18O2 PFHxS	*86*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
d3-NMeFOSAA	*92*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
d5-NEtFOSAA	*95*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
M2-6:2 FTS	*135*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*
M2-8:2 FTS	*117*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1200**		18	9.1	ng/L		08/25/20 16:17	08/27/20 13:56	10
Perfluorooctanoic acid (PFOA)	**1500**		18	7.3	ng/L		08/25/20 16:17	08/27/20 13:56	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*25 - 150*	*08/25/20 16:17*	*08/27/20 13:56*	*10*
13C4 PFOA	*88*		*50 - 150*	*08/25/20 16:17*	*08/27/20 13:56*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/25/20 09:35	08/26/20 14:48	1
Antimony	ND		0.020	0.0068	mg/L		08/25/20 09:35	08/26/20 14:48	1
Arsenic	ND		0.015	0.0056	mg/L		08/25/20 09:35	08/26/20 14:48	1
Barium	**1.5**	**^**	0.0020	0.00070	mg/L		08/25/20 09:35	08/26/20 14:48	1
Beryllium	ND		0.0020	0.00030	mg/L		08/25/20 09:35	08/26/20 14:48	1
Boron	**2.9**		0.020	0.0040	mg/L		08/25/20 09:35	08/26/20 14:48	1
Cadmium	ND		0.0020	0.00050	mg/L		08/25/20 09:35	08/26/20 14:48	1
Calcium	**256**		0.50	0.10	mg/L		08/25/20 09:35	08/26/20 14:48	1
Chromium	**0.0020**	**J**	0.0040	0.0010	mg/L		08/25/20 09:35	08/26/20 14:48	1

Client Sample ID: 8-MON-009-004-01

Lab Sample ID: 480-174095-1

Date Collected: 08/20/20 11:30

Matrix: Water

Date Received: 08/21/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.0017**	**J**	0.0040	0.00063	mg/L		08/25/20 09:35	08/26/20 14:48	1
Copper	ND		0.010	0.0016	mg/L		08/25/20 09:35	08/26/20 14:48	1
Iron	**5.6**		0.050	0.019	mg/L		08/25/20 09:35	08/26/20 14:48	1
Lead	ND		0.010	0.0030	mg/L		08/25/20 09:35	08/26/20 14:48	1
Magnesium	**177**		0.20	0.043	mg/L		08/25/20 09:35	08/26/20 14:48	1
Manganese	**0.21**	**B**	0.0030	0.00040	mg/L		08/25/20 09:35	08/26/20 14:48	1
Nickel	**0.0023**	**J**	0.010	0.0013	mg/L		08/25/20 09:35	08/26/20 14:48	1
Potassium	**37.2**		0.50	0.10	mg/L		08/25/20 09:35	08/26/20 14:48	1
Selenium	ND		0.025	0.0087	mg/L		08/25/20 09:35	08/26/20 14:48	1
Silver	ND		0.0060	0.0017	mg/L		08/25/20 09:35	08/26/20 14:48	1
Sodium	**78.3**		1.0	0.32	mg/L		08/25/20 09:35	08/26/20 14:48	1
Thallium	ND		0.020	0.010	mg/L		08/25/20 09:35	08/26/20 14:48	1
Vanadium	**0.0032**	**J**	0.0050	0.0015	mg/L		08/25/20 09:35	08/26/20 14:48	1
Zinc	**0.0020**	**J**	0.010	0.0015	mg/L		08/25/20 09:35	08/26/20 14:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/24/20 13:08	08/24/20 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		2.0	0.73	mg/L			08/25/20 16:03	10
Chloride	**50.6**		5.0	2.8	mg/L			08/25/20 16:03	10
Sulfate	ND		20.0	3.5	mg/L			08/25/20 16:03	10
Ammonia	**8.2**		0.10	0.045	mg/L			08/24/20 12:04	5
Chemical Oxygen Demand	**131**		20.0	10.0	mg/L			09/01/20 15:30	2
Total Organic Carbon	**39.7**		1.0	0.43	mg/L			08/23/20 22:41	1
Alkalinity, Total	**1580**		5.0	0.79	mg/L			08/26/20 14:20	1
Total hardness as CaCO3	**12.0**	**B**	2.0	0.53	mg/L			08/29/20 23:24	1
Total Dissolved Solids	**1460**		20.0	8.0	mg/L			08/21/20 18:18	1

Client Sample ID: 8-MON-009-004-02

Lab Sample ID: 480-174095-2

Date Collected: 08/20/20 12:00

Matrix: Water

Date Received: 08/21/20 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		08/25/20 16:17	08/26/20 20:33	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.9	ng/L		08/25/20 16:17	08/26/20 20:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.3	ng/L		08/25/20 16:17	08/26/20 20:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorobutanesulfonic acid (PFBS)	**0.52**	**J B**	1.8	0.44	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorobutanoic acid (PFBA)	ND		1.8	0.89	ng/L		08/25/20 16:17	08/27/20 14:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.80	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.69	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.53	ng/L		08/25/20 16:17	08/26/20 20:33	1

Client Sample ID: 8-MON-009-004-02

Lab Sample ID: 480-174095-2

Date Collected: 08/20/20 12:00

Matrix: Water

Date Received: 08/21/20 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	0.85	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.81	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.71	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorohexanoic acid (PFHxA)	**0.89**	**J**	1.8	0.68	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.9	8.9	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.72	ng/L		08/25/20 16:17	08/27/20 14:04	1
Perfluoropentanoic acid (PFPeA)	**0.70**	**J**	1.8	0.56	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.82	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.54	ng/L		08/25/20 16:17	08/26/20 20:33	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.70	ng/L		08/25/20 16:17	08/26/20 20:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*116*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C2 PFDoA	*103*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C2 PFHxA	*116*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C2 PFUnA	*98*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C2 PFTeDA	*90*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C4 PFBA	*121*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C4 PFBA	*110*		*25 - 150*	*08/25/20 16:17*	*08/27/20 14:04*	*1*
13C4 PFOA	*113*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C4 PFOA	*98*		*50 - 150*	*08/25/20 16:17*	*08/27/20 14:04*	*1*
13C4 PFOS	*94*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C4 PFHpA	*112*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C5 PFNA	*108*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C5 PFPeA	*112*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
13C8 FOSA	*77*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
18O2 PFHxS	*106*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
d3-NMeFOSAA	*87*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
d5-NEtFOSAA	*96*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
M2-6:2 FTS	*106*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*
M2-8:2 FTS	*96*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:33*	*1*

Client Sample ID: 8-MON-009-004-03

Lab Sample ID: 480-174095-3

Date Collected: 08/20/20 12:05

Matrix: Water

Date Received: 08/21/20 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	2.7	ng/L		08/25/20 16:17	08/26/20 20:50	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	5.0	ng/L		08/25/20 16:17	08/26/20 20:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.4	ng/L		08/25/20 16:17	08/26/20 20:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.6	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorobutanesulfonic acid (PFBS)	**0.48**	**J B**	1.8	0.45	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorobutanoic acid (PFBA)	ND		1.8	0.92	ng/L		08/25/20 16:17	08/26/20 20:50	1

Client Sample ID: 8-MON-009-004-03

Lab Sample ID: 480-174095-3

Date Collected: 08/20/20 12:05

Matrix: Water

Date Received: 08/21/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.83	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.71	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.54	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.87	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.83	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.73	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.70	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.2	9.2	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.56	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.74	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluoropentanoic acid (PFPeA)	**0.66**	**J**	1.8	0.58	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.84	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.55	ng/L		08/25/20 16:17	08/26/20 20:50	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.72	ng/L		08/25/20 16:17	08/26/20 20:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*89*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C2 PFDoA	*73*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C2 PFHxA	*102*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C2 PFUnA	*86*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C2 PFTeDA	*70*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C4 PFBA	*109*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C4 PFOA	*100*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C4 PFOS	*83*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C4 PFHpA	*97*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C5 PFNA	*97*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C5 PFPeA	*103*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
13C8 FOSA	*53*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
18O2 PFHxS	*87*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
d3-NMeFOSAA	*80*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
d5-NEtFOSAA	*77*		*50 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
M2-6:2 FTS	*86*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*
M2-8:2 FTS	*91*		*25 - 150*	*08/25/20 16:17*	*08/26/20 20:50*	*1*

Client Sample ID: 8-MON-009-004-04

Lab Sample ID: 480-174095-4

Date Collected: 08/20/20 00:00

Matrix: Water

Date Received: 08/21/20 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			08/26/20 23:41	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/26/20 23:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/26/20 23:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/26/20 23:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/26/20 23:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/26/20 23:41	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/26/20 23:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/26/20 23:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/26/20 23:41	1

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174095-1

Client Sample ID: 8-MON-009-004-04
Date Collected: 08/20/20 00:00
Date Received: 08/21/20 08:00

Lab Sample ID: 480-174095-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/26/20 23:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/26/20 23:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/26/20 23:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/26/20 23:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/26/20 23:41	1
2-Hexanone	ND		5.0	1.2	ug/L			08/26/20 23:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/26/20 23:41	1
Acetone	ND		10	3.0	ug/L			08/26/20 23:41	1
Acrylonitrile	ND		5.0	0.83	ug/L			08/26/20 23:41	1
Benzene	ND		1.0	0.41	ug/L			08/26/20 23:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/26/20 23:41	1
Bromoform	ND		1.0	0.26	ug/L			08/26/20 23:41	1
Bromomethane	ND		1.0	0.69	ug/L			08/26/20 23:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/26/20 23:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/26/20 23:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/26/20 23:41	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/26/20 23:41	1
Chloroethane	ND		1.0	0.32	ug/L			08/26/20 23:41	1
Chloroform	ND		1.0	0.34	ug/L			08/26/20 23:41	1
Chloromethane	ND		1.0	0.35	ug/L			08/26/20 23:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/26/20 23:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/26/20 23:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/26/20 23:41	1
Dibromomethane	ND		1.0	0.41	ug/L			08/26/20 23:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/26/20 23:41	1
Iodomethane	ND		1.0	0.30	ug/L			08/26/20 23:41	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/26/20 23:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/26/20 23:41	1
o-Xylene	ND		1.0	0.76	ug/L			08/26/20 23:41	1
Styrene	ND		1.0	0.73	ug/L			08/26/20 23:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/26/20 23:41	1
Toluene	ND		1.0	0.51	ug/L			08/26/20 23:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/26/20 23:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/26/20 23:41	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/26/20 23:41	1
Trichloroethene	ND		1.0	0.46	ug/L			08/26/20 23:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/26/20 23:41	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/26/20 23:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/26/20 23:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/26/20 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*08/26/20 23:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*08/26/20 23:41*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*08/26/20 23:41*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/26/20 23:41*	*1*

Surrogate Summary

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174095-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-174095-1	8-MON-009-004-01	102	100	102	101
480-174095-4	8-MON-009-004-04	103	99	101	100
LCS 480-546967/4	Lab Control Sample	97	101	99	100
MB 480-546967/6	Method Blank	100	101	103	102

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)
480-174095-1	8-MON-009-004-01	92	88	62
LCS 480-546928/2-A	Lab Control Sample	100	102	90
MB 480-546928/1-A	Method Blank	102	92	94

Surrogate Legend

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

Isotope Dilution Summary

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174095-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE
Lab Sample ID	Client Sample ID	(15-110)
480-174095-1	8-MON-009-004-01	20
LCS 480-546549/2-A	Lab Control Sample	26
MB 480-546549/1-A	Method Blank	28

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)							
		PFDA	PFDoA	PFHxA	PFUnA	PFTDA	PFBA	PFOA	PFOS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(25-150)	(50-150)	(50-150)
480-174095-1	8-MON-009-004-01	101	107	82	100	92	47	94	81
480-174095-1 - DL	8-MON-009-004-01						81	88	
480-174095-2	8-MON-009-004-02	116	103	116	98	90	121	113	94
480-174095-2	8-MON-009-004-02						110	98	
480-174095-3	8-MON-009-004-03	89	73	102	86	70	109	100	83
LCS 200-158246/2-A	Lab Control Sample	97	91	105	93	83	112	96	93
MB 200-158246/1-A	Method Blank	105	88	104	89	80	115	99	93

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		C4PFHA	PFNA	PFPeA	PFOSA	PFHxS	d3NMFOS	d5NEFOS	M262FTS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(25-150)	(25-150)	(50-150)	(50-150)	(50-150)	(25-150)
480-174095-1	8-MON-009-004-01	83	101	68	63	86	92	95	135
480-174095-1 - DL	8-MON-009-004-01								
480-174095-2	8-MON-009-004-02	112	108	112	77	106	87	96	106
480-174095-2	8-MON-009-004-02								
480-174095-3	8-MON-009-004-03	97	97	103	53	87	80	77	86
LCS 200-158246/2-A	Lab Control Sample	96	95	98	48	97	86	83	90
MB 200-158246/1-A	Method Blank	107	103	97	54	94	72	88	97

		Percent Isotope Dilution Recovery (Acceptance Limits)
		M282FTS
Lab Sample ID	Client Sample ID	(25-150)
480-174095-1	8-MON-009-004-01	117
480-174095-1 - DL	8-MON-009-004-01	
480-174095-2	8-MON-009-004-02	96
480-174095-2	8-MON-009-004-02	
480-174095-3	8-MON-009-004-03	91
LCS 200-158246/2-A	Lab Control Sample	91
MB 200-158246/1-A	Method Blank	91

Surrogate Legend

PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
PFHxA = 13C2 PFHxA
PFUnA = 13C2 PFUnA
PFTDA = 13C2 PFTeDA
PFBA = 13C4 PFBA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS

Isotope Dilution Summary

Client: Parsons Corporation
Job ID: 480-174095-1
Project/Site: 8 MON-009 Lyndon Road LF

C4PFHA = 13C4 PFHpA
PFNA = 13C5 PFNA
PFPeA = 13C5 PFPeA
PFOSA = 13C8 FOSA
PFHxS = 18O2 PFHxS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

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

Lab Sample ID: MB 480-546967/6
Matrix: Water
Analysis Batch: 546967

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			08/26/20 22:41	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/26/20 22:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/26/20 22:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/26/20 22:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/26/20 22:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/26/20 22:41	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/26/20 22:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/26/20 22:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/26/20 22:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/26/20 22:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/26/20 22:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/26/20 22:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/26/20 22:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/26/20 22:41	1
2-Hexanone	ND		5.0	1.2	ug/L			08/26/20 22:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/26/20 22:41	1
Acetone	ND		10	3.0	ug/L			08/26/20 22:41	1
Acrylonitrile	ND		5.0	0.83	ug/L			08/26/20 22:41	1
Benzene	ND		1.0	0.41	ug/L			08/26/20 22:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/26/20 22:41	1
Bromoform	ND		1.0	0.26	ug/L			08/26/20 22:41	1
Bromomethane	ND		1.0	0.69	ug/L			08/26/20 22:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/26/20 22:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/26/20 22:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/26/20 22:41	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/26/20 22:41	1
Chloroethane	ND		1.0	0.32	ug/L			08/26/20 22:41	1
Chloroform	ND		1.0	0.34	ug/L			08/26/20 22:41	1
Chloromethane	ND		1.0	0.35	ug/L			08/26/20 22:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/26/20 22:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/26/20 22:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/26/20 22:41	1
Dibromomethane	ND		1.0	0.41	ug/L			08/26/20 22:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/26/20 22:41	1
Iodomethane	ND		1.0	0.30	ug/L			08/26/20 22:41	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/26/20 22:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/26/20 22:41	1
o-Xylene	ND		1.0	0.76	ug/L			08/26/20 22:41	1
Styrene	ND		1.0	0.73	ug/L			08/26/20 22:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/26/20 22:41	1
Toluene	ND		1.0	0.51	ug/L			08/26/20 22:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/26/20 22:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/26/20 22:41	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/26/20 22:41	1
Trichloroethene	ND		1.0	0.46	ug/L			08/26/20 22:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/26/20 22:41	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/26/20 22:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/26/20 22:41	1

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

Lab Sample ID: MB 480-546967/6
Matrix: Water
Analysis Batch: 546967

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			08/26/20 22:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*08/26/20 22:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/26/20 22:41*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/26/20 22:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/26/20 22:41*	*1*

Lab Sample ID: LCS 480-546967/4
Matrix: Water
Analysis Batch: 546967

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	22.0		ug/L		88	80 - 120
1,1,1-Trichloroethane	25.0	23.0		ug/L		92	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	21.8		ug/L		87	76 - 122
1,1-Dichloroethane	25.0	22.2		ug/L		89	77 - 120
1,1-Dichloroethene	25.0	24.1		ug/L		96	66 - 127
1,2,3-Trichloropropane	25.0	22.0		ug/L		88	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	18.3		ug/L		73	56 - 134
1,2-Dibromoethane	25.0	22.9		ug/L		92	77 - 120
1,2-Dichlorobenzene	25.0	23.4		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	22.6		ug/L		90	75 - 120
1,2-Dichloropropane	25.0	22.9		ug/L		91	76 - 120
1,4-Dichlorobenzene	25.0	23.1		ug/L		93	80 - 120
2-Butanone (MEK)	125	105		ug/L		84	57 - 140
2-Hexanone	125	110		ug/L		88	65 - 127
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		87	71 - 125
Acetone	125	103		ug/L		82	56 - 142
Acrylonitrile	250	217		ug/L		87	63 - 125
Benzene	25.0	22.6		ug/L		90	71 - 124
Bromodichloromethane	25.0	21.7		ug/L		87	80 - 122
Bromoform	25.0	19.4		ug/L		78	61 - 132
Bromomethane	25.0	21.5		ug/L		86	55 - 144
Carbon disulfide	25.0	22.6		ug/L		90	59 - 134
Carbon tetrachloride	25.0	21.5		ug/L		86	72 - 134
Chlorobenzene	25.0	23.0		ug/L		92	80 - 120
Chlorobromomethane	25.0	23.7		ug/L		95	72 - 130
Chloroethane	25.0	20.4		ug/L		82	69 - 136
Chloroform	25.0	22.3		ug/L		89	73 - 127
Chloromethane	25.0	20.3		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	23.2		ug/L		93	74 - 124
Dibromochloromethane	25.0	21.2		ug/L		85	75 - 125
Dibromomethane	25.0	23.2		ug/L		93	76 - 127
Ethylbenzene	25.0	22.8		ug/L		91	77 - 123
Iodomethane	25.0	22.6		ug/L		90	78 - 123

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

Lab Sample ID: LCS 480-546967/4
Matrix: Water
Analysis Batch: 546967

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	23.6		ug/L		94	76 - 122
Methylene Chloride	25.0	24.2		ug/L		97	75 - 124
o-Xylene	25.0	23.0		ug/L		92	76 - 122
Styrene	25.0	23.5		ug/L		94	80 - 120
Tetrachloroethene	25.0	22.8		ug/L		91	74 - 122
Toluene	25.0	22.6		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	23.1		ug/L		92	80 - 120
trans-1,4-Dichloro-2-butene	25.0	21.0		ug/L		84	41 - 131
Trichloroethene	25.0	22.6		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	22.0		ug/L		88	62 - 150
Vinyl acetate	50.0	39.4		ug/L		79	50 - 144
Vinyl chloride	25.0	21.7		ug/L		87	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: MB 480-546549/1-A
Matrix: Water
Analysis Batch: 546871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		08/24/20 15:02	08/26/20 11:24	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*08/24/20 15:02*	*08/26/20 11:24*	*1*

Lab Sample ID: LCS 480-546549/2-A
Matrix: Water
Analysis Batch: 546871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.12		ug/L		112	40 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*26*		*15 - 110*

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

Lab Sample ID: MB 480-546928/1-A
Matrix: Water
Analysis Batch: 547071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		08/26/20 14:52	08/27/20 16:02	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/26/20 14:52	08/27/20 16:02	1
Anthracene	ND		0.50	0.39	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/26/20 14:52	08/27/20 16:02	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/26/20 14:52	08/27/20 16:02	1
Chrysene	ND		0.50	0.32	ug/L		08/26/20 14:52	08/27/20 16:02	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/26/20 14:52	08/27/20 16:02	1
Fluoranthene	ND		0.50	0.36	ug/L		08/26/20 14:52	08/27/20 16:02	1
Fluorene	ND		0.50	0.37	ug/L		08/26/20 14:52	08/27/20 16:02	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/26/20 14:52	08/27/20 16:02	1
Naphthalene	ND		0.50	0.42	ug/L		08/26/20 14:52	08/27/20 16:02	1
Phenanthrene	ND		0.50	0.38	ug/L		08/26/20 14:52	08/27/20 16:02	1
Pyrene	ND		0.50	0.36	ug/L		08/26/20 14:52	08/27/20 16:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*48 - 120*	*08/26/20 14:52*	*08/27/20 16:02*	*1*
Nitrobenzene-d5	*92*		*46 - 120*	*08/26/20 14:52*	*08/27/20 16:02*	*1*
p-Terphenyl-d14	*94*		*24 - 136*	*08/26/20 14:52*	*08/27/20 16:02*	*1*

Lab Sample ID: LCS 480-546928/2-A
Matrix: Water
Analysis Batch: 547071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	31.0		ug/L		97	60 - 120
Acenaphthylene	32.0	32.3		ug/L		101	63 - 120
Anthracene	32.0	32.4		ug/L		101	69 - 131
Benzo[a]anthracene	32.0	30.9		ug/L		96	62 - 142
Benzo[a]pyrene	32.0	32.0		ug/L		100	46 - 156
Benzo[b]fluoranthene	32.0	31.1		ug/L		97	50 - 149
Benzo[g,h,i]perylene	32.0	35.3		ug/L		110	34 - 189
Benzo[k]fluoranthene	32.0	31.7		ug/L		99	47 - 147
Chrysene	32.0	30.1		ug/L		94	69 - 140
Dibenz(a,h)anthracene	32.0	33.4	E	ug/L		104	35 - 176
Fluoranthene	32.0	33.6		ug/L		105	67 - 133
Fluorene	32.0	32.1		ug/L		100	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	33.8		ug/L		106	57 - 161
Naphthalene	32.0	30.0		ug/L		94	48 - 120
Phenanthrene	32.0	31.8		ug/L		99	67 - 130
Pyrene	32.0	32.5		ug/L		102	58 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*48 - 120*
Nitrobenzene-d5	*102*		*46 - 120*
p-Terphenyl-d14	*90*		*24 - 136*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-158246/1-A
Matrix: Water
Analysis Batch: 158290

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158246

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		08/25/20 16:17	08/26/20 19:18	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		20	5.5	ng/L		08/25/20 16:17	08/26/20 19:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		08/25/20 16:17	08/26/20 19:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorobutanesulfonic acid (PFBS)	0.719	J	2.0	0.49	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorobutanoic acid (PFBA)	ND		2.0	1.0	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorooctanesulfonamide (PFOSA)	ND		10	10	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.81	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.63	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60	ng/L		08/25/20 16:17	08/26/20 19:18	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.78	ng/L		08/25/20 16:17	08/26/20 19:18	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*105*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C2 PFDoA	*88*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C2 PFHxA	*104*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C2 PFUnA	*89*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C4 PFBA	*115*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C4 PFOA	*99*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C4 PFOS	*93*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C4 PFHpA	*107*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C5 PFNA	*103*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C5 PFPeA	*97*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
13C8 FOSA	*54*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
18O2 PFHxS	*94*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
d3-NMeFOSAA	*72*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
d5-NEtFOSAA	*88*		*50 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
M2-6:2 FTS	*97*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*
M2-8:2 FTS	*91*		*25 - 150*	*08/25/20 16:17*	*08/26/20 19:18*	*1*

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

Lab Sample ID: LCS 200-158246/2-A
Matrix: Water
Analysis Batch: 158290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	40.9		ng/L		107	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	34.8		ng/L		92	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.1		ng/L		100	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	32.8		ng/L		82	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	40.3		ng/L		114	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	38.5		ng/L		96	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	35.4		ng/L		92	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	41.6		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	38.2		ng/L		96	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	43.0		ng/L		113	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	41.6		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.9		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	38.3		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	40.0	39.5		ng/L		99	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	42.2		ng/L		105	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	36.9		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	42.4		ng/L		106	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	41.3		ng/L		103	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	41.8		ng/L		104	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	38.5		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	39.7		ng/L		99	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFDA	*97*		*50 - 150*
13C2 PFDoA	*91*		*50 - 150*
13C2 PFHxA	*105*		*50 - 150*
13C2 PFUnA	*93*		*50 - 150*
13C2 PFTeDA	*83*		*50 - 150*
13C4 PFBA	*112*		*25 - 150*
13C4 PFOA	*96*		*50 - 150*
13C4 PFOS	*93*		*50 - 150*
13C4 PFHpA	*96*		*50 - 150*
13C5 PFNA	*95*		*50 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C8 FOSA	*48*		*25 - 150*
18O2 PFHxS	*97*		*50 - 150*
d3-NMeFOSAA	*86*		*50 - 150*
d5-NEtFOSAA	*83*		*50 - 150*

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

Lab Sample ID: LCS 200-158246/2-A
Matrix: Water
Analysis Batch: 158290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158246

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	90		25 - 150
M2-8:2 FTS	91		25 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-546458/1-A
Matrix: Water
Analysis Batch: 547028

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/25/20 09:35	08/26/20 12:38	1
Antimony	ND		0.020	0.0068	mg/L		08/25/20 09:35	08/26/20 12:38	1
Arsenic	ND		0.015	0.0056	mg/L		08/25/20 09:35	08/26/20 12:38	1
Barium	ND	^	0.0020	0.00070	mg/L		08/25/20 09:35	08/26/20 12:38	1
Beryllium	ND		0.0020	0.00030	mg/L		08/25/20 09:35	08/26/20 12:38	1
Boron	ND		0.020	0.0040	mg/L		08/25/20 09:35	08/26/20 12:38	1
Cadmium	ND		0.0020	0.00050	mg/L		08/25/20 09:35	08/26/20 12:38	1
Calcium	ND		0.50	0.10	mg/L		08/25/20 09:35	08/26/20 12:38	1
Chromium	ND		0.0040	0.0010	mg/L		08/25/20 09:35	08/26/20 12:38	1
Cobalt	ND		0.0040	0.00063	mg/L		08/25/20 09:35	08/26/20 12:38	1
Copper	ND		0.010	0.0016	mg/L		08/25/20 09:35	08/26/20 12:38	1
Iron	ND		0.050	0.019	mg/L		08/25/20 09:35	08/26/20 12:38	1
Lead	ND		0.010	0.0030	mg/L		08/25/20 09:35	08/26/20 12:38	1
Magnesium	ND		0.20	0.043	mg/L		08/25/20 09:35	08/26/20 12:38	1
Manganese	0.000530	J	0.0030	0.00040	mg/L		08/25/20 09:35	08/26/20 12:38	1
Nickel	ND		0.010	0.0013	mg/L		08/25/20 09:35	08/26/20 12:38	1
Potassium	ND		0.50	0.10	mg/L		08/25/20 09:35	08/26/20 12:38	1
Selenium	ND		0.025	0.0087	mg/L		08/25/20 09:35	08/26/20 12:38	1
Silver	ND		0.0060	0.0017	mg/L		08/25/20 09:35	08/26/20 12:38	1
Sodium	ND		1.0	0.32	mg/L		08/25/20 09:35	08/26/20 12:38	1
Thallium	ND		0.020	0.010	mg/L		08/25/20 09:35	08/26/20 12:38	1
Vanadium	ND		0.0050	0.0015	mg/L		08/25/20 09:35	08/26/20 12:38	1
Zinc	ND		0.010	0.0015	mg/L		08/25/20 09:35	08/26/20 12:38	1

Lab Sample ID: LCS 480-546458/2-A
Matrix: Water
Analysis Batch: 547028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.79		mg/L		98	80 - 120
Antimony	0.200	0.213		mg/L		107	80 - 120
Arsenic	0.200	0.213		mg/L		107	80 - 120
Barium	0.200	0.214	^	mg/L		107	80 - 120
Beryllium	0.200	0.205		mg/L		103	80 - 120
Boron	0.200	0.209		mg/L		104	80 - 120
Cadmium	0.200	0.205		mg/L		103	80 - 120
Calcium	10.0	9.95		mg/L		99	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.200	0.192		mg/L		96	80 - 120

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

Lab Sample ID: LCS 480-546458/2-A
Matrix: Water
Analysis Batch: 547028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.200	0.194		mg/L		97	80 - 120
Iron	10.0	9.97		mg/L		100	80 - 120
Lead	0.200	0.197		mg/L		98	80 - 120
Magnesium	10.0	9.69		mg/L		97	80 - 120
Manganese	0.200	0.201		mg/L		101	80 - 120
Nickel	0.200	0.196		mg/L		98	80 - 120
Potassium	10.0	9.60		mg/L		96	80 - 120
Selenium	0.200	0.203		mg/L		101	80 - 120
Silver	0.0500	0.0490		mg/L		98	80 - 120
Sodium	10.0	9.77		mg/L		98	80 - 120
Thallium	0.200	0.201		mg/L		100	80 - 120
Vanadium	0.200	0.198		mg/L		99	80 - 120
Zinc	0.200	0.208		mg/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-546498/1-A
Matrix: Water
Analysis Batch: 546570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 546498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/24/20 13:08	08/24/20 17:07	1

Lab Sample ID: LCS 480-546498/2-A
Matrix: Water
Analysis Batch: 546570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 546498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00662		mg/L		99	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-546658/4
Matrix: Water
Analysis Batch: 546658

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			08/25/20 12:17	1
Chloride	ND		0.50	0.28	mg/L			08/25/20 12:17	1
Sulfate	ND		2.0	0.35	mg/L			08/25/20 12:17	1

Lab Sample ID: LCS 480-546658/3
Matrix: Water
Analysis Batch: 546658

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	5.32		mg/L		106	90 - 110
Chloride	50.0	51.29		mg/L		103	90 - 110
Sulfate	50.0	51.39		mg/L		103	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-546514/99
Matrix: Water
Analysis Batch: 546514

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			08/24/20 11:48	1

Lab Sample ID: LCS 480-546514/100
Matrix: Water
Analysis Batch: 546514

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	1.02		mg/L		102	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-547866/27
Matrix: Water
Analysis Batch: 547866

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			09/01/20 15:30	1

Lab Sample ID: LCS 480-547866/28
Matrix: Water
Analysis Batch: 547866

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	27.34		mg/L		109	90 - 110

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

Lab Sample ID: MB 480-546672/27
Matrix: Water
Analysis Batch: 546672

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			08/23/20 03:27	1

Lab Sample ID: MB 480-546672/51
Matrix: Water
Analysis Batch: 546672

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			08/23/20 14:41	1

Lab Sample ID: LCS 480-546672/28
Matrix: Water
Analysis Batch: 546672

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	61.51		mg/L		103	90 - 110

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

Lab Sample ID: LCS 480-546672/52
Matrix: Water
Analysis Batch: 546672

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	62.00		mg/L		103	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-546979/28
Matrix: Water
Analysis Batch: 546979

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			08/26/20 12:01	1

Lab Sample ID: MB 480-546979/52
Matrix: Water
Analysis Batch: 546979

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			08/26/20 14:50	1

Lab Sample ID: LCS 480-546979/29
Matrix: Water
Analysis Batch: 546979

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	95.36		mg/L		95	90 - 110

Lab Sample ID: LCS 480-546979/53
Matrix: Water
Analysis Batch: 546979

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	93.76		mg/L		94	90 - 110

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-547373/27
Matrix: Water
Analysis Batch: 547373

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total hardness as CaCO3	ND		2.0	0.53	mg/L			08/28/20 23:05	1

Lab Sample ID: MB 480-547373/3
Matrix: Water
Analysis Batch: 547373

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total hardness as CaCO3	ND		2.0	0.53	mg/L			08/28/20 17:57	1

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: MB 480-547373/46
Matrix: Water
Analysis Batch: 547373

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total hardness as CaCO3	1.06	J	2.0	0.53	mg/L			08/29/20 19:44	1

Lab Sample ID: LCS 480-547373/28
Matrix: Water
Analysis Batch: 547373

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total hardness as CaCO3	109	104.0		mg/L		95	90 - 110

Lab Sample ID: LCS 480-547373/4
Matrix: Water
Analysis Batch: 547373

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total hardness as CaCO3	109	113.8		mg/L		104	90 - 110

Lab Sample ID: LCS 480-547373/47
Matrix: Water
Analysis Batch: 547373

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total hardness as CaCO3	109	114.0		mg/L		105	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-546347/1
Matrix: Water
Analysis Batch: 546347

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			08/21/20 18:17	1

Lab Sample ID: LCS 480-546347/2
Matrix: Water
Analysis Batch: 546347

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	502	494.0		mg/L		98	85 - 115

QC Association Summary

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174095-1

GC/MS VOA

Analysis Batch: 546967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	8260C	
480-174095-4	8-MON-009-004-04	Total/NA	Water	8260C	
MB 480-546967/6	Method Blank	Total/NA	Water	8260C	
LCS 480-546967/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 546549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	3510C	
MB 480-546549/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-546549/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 546871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	8270D SIM ID	546549
MB 480-546549/1-A	Method Blank	Total/NA	Water	8270D SIM ID	546549
LCS 480-546549/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	546549

Prep Batch: 546928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	3510C	
MB 480-546928/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-546928/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 547071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	8270D_LL_PAH	546928
MB 480-546928/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	546928
LCS 480-546928/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	546928

LCMS

Prep Batch: 158246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	3535	
480-174095-1 - DL	8-MON-009-004-01	Total/NA	Water	3535	
480-174095-2	8-MON-009-004-02	Total/NA	Water	3535	
480-174095-3	8-MON-009-004-03	Total/NA	Water	3535	
MB 200-158246/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-158246/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 158290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	537 (modified)	158246
480-174095-2	8-MON-009-004-02	Total/NA	Water	537 (modified)	158246
480-174095-3	8-MON-009-004-03	Total/NA	Water	537 (modified)	158246
MB 200-158246/1-A	Method Blank	Total/NA	Water	537 (modified)	158246
LCS 200-158246/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	158246

LCMS

Analysis Batch: 158307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1 - DL	8-MON-009-004-01	Total/NA	Water	537 (modified)	158246
480-174095-2	8-MON-009-004-02	Total/NA	Water	537 (modified)	158246

Metals

Prep Batch: 546458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	3005A	
MB 480-546458/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-546458/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 546498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	7470A	
MB 480-546498/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-546498/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 546570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	7470A	546498
MB 480-546498/1-A	Method Blank	Total/NA	Water	7470A	546498
LCS 480-546498/2-A	Lab Control Sample	Total/NA	Water	7470A	546498

Analysis Batch: 547028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	6010C	546458
MB 480-546458/1-A	Method Blank	Total/NA	Water	6010C	546458
LCS 480-546458/2-A	Lab Control Sample	Total/NA	Water	6010C	546458

General Chemistry

Analysis Batch: 546347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	SM 2540C	
MB 480-546347/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-546347/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 546514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	350.1	
MB 480-546514/99	Method Blank	Total/NA	Water	350.1	
LCS 480-546514/100	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 546658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	300.0	
MB 480-546658/4	Method Blank	Total/NA	Water	300.0	
LCS 480-546658/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 546672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	9060A	

General Chemistry (Continued)

Analysis Batch: 546672 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-546672/27	Method Blank	Total/NA	Water	9060A	
MB 480-546672/51	Method Blank	Total/NA	Water	9060A	
LCS 480-546672/28	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-546672/52	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 546979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	SM 2320B	
MB 480-546979/28	Method Blank	Total/NA	Water	SM 2320B	
MB 480-546979/52	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-546979/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-546979/53	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 547373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	SM 2340C	
MB 480-547373/27	Method Blank	Total/NA	Water	SM 2340C	
MB 480-547373/3	Method Blank	Total/NA	Water	SM 2340C	
MB 480-547373/46	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-547373/28	Lab Control Sample	Total/NA	Water	SM 2340C	
LCS 480-547373/4	Lab Control Sample	Total/NA	Water	SM 2340C	
LCS 480-547373/47	Lab Control Sample	Total/NA	Water	SM 2340C	

Analysis Batch: 547866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-174095-1	8-MON-009-004-01	Total/NA	Water	410.4	
MB 480-547866/27	Method Blank	Total/NA	Water	410.4	
LCS 480-547866/28	Lab Control Sample	Total/NA	Water	410.4	

Lab Chronicle

Client: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174095-1

Client Sample ID: 8-MON-009-004-01

Lab Sample ID: 480-174095-1

Date Collected: 08/20/20 11:30

Matrix: Water

Date Received: 08/21/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	546967	08/27/20 02:23	AMM	TAL BUF
Total/NA	Prep	3510C			546549	08/24/20 15:02	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	546871	08/26/20 17:04	RJS	TAL BUF
Total/NA	Prep	3510C			546928	08/26/20 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	547071	08/27/20 22:41	PJQ	TAL BUF
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158290	08/26/20 20:25	BWC	TAL BUR
Total/NA	Prep	3535	DL		158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)	DL	10	158307	08/27/20 13:56	BWC	TAL BUR
Total/NA	Prep	3005A			546458	08/25/20 09:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	547028	08/26/20 14:48	LMH	TAL BUF
Total/NA	Prep	7470A			546498	08/24/20 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	546570	08/24/20 17:41	BMB	TAL BUF
Total/NA	Analysis	300.0		10	546658	08/25/20 16:03	IMZ	TAL BUF
Total/NA	Analysis	350.1		5	546514	08/24/20 12:04	CLT	TAL BUF
Total/NA	Analysis	410.4		2	547866	09/01/20 15:30	CSS	TAL BUF
Total/NA	Analysis	9060A		1	546672	08/23/20 22:41	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	546979	08/26/20 14:20	DLG	TAL BUF
Total/NA	Analysis	SM 2340C		1	547373	08/29/20 23:24	DLG	TAL BUF
Total/NA	Analysis	SM 2540C		1	546347	08/21/20 18:18	E1T	TAL BUF

Client Sample ID: 8-MON-009-004-02

Lab Sample ID: 480-174095-2

Date Collected: 08/20/20 12:00

Matrix: Water

Date Received: 08/21/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158290	08/26/20 20:33	BWC	TAL BUR
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158307	08/27/20 14:04	BWC	TAL BUR

Client Sample ID: 8-MON-009-004-03

Lab Sample ID: 480-174095-3

Date Collected: 08/20/20 12:05

Matrix: Water

Date Received: 08/21/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			158246	08/25/20 16:17	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158290	08/26/20 20:50	BWC	TAL BUR

Lab Chronicle

Client: Parsons Corporation
Job ID: 480-174095-1
Project/Site: 8 MON-009 Lyndon Road LF

Client Sample ID: 8-MON-009-004-04
Lab Sample ID: 480-174095-4
Date Collected: 08/20/20 00:00
Matrix: Water
Date Received: 08/21/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	546967	08/26/20 23:41	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: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174095-1

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	04-02-21

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
SM 2340C		Water	Total hardness as CaCO3

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	04-01-21

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)

Method Summary

Client: Parsons Corporation
Job ID: 480-174095-1
Project/Site: 8 MON-009 Lyndon Road LF

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
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 2340C	Hardness, Total (mg/l as CaC03)	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: Parsons Corporation
Project/Site: 8 MON-009 Lyndon Road LF

Job ID: 480-174095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-174095-1	8-MON-009-004-01	Water	08/20/20 11:30	08/21/20 08:00	
480-174095-2	8-MON-009-004-02	Water	08/20/20 12:00	08/21/20 08:00	
480-174095-3	8-MON-009-004-03	Water	08/20/20 12:05	08/21/20 08:00	
480-174095-4	8-MON-009-004-04	Water	08/20/20 00:00	08/21/20 08:00	

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information		Section B Client Information		COC #:	8-MoN-009-004
Lab Name:	TestAmerica	Company:	Parsons	Project Name:	ILI - Region 8
Attention:	John Schove	Attention:	George Moreau	Project Site:	Lyndon Road LF
Address:	10 Hazelwood Drive Amherst, NY 14228-2298	Address:	301 Plainfield Road, Suite 350 Syracuse, NY 13212	Project Number:	~~450619~~ 452148 AKS
Phone:	(716) 504-9838	Phone:	315-552-9715		
Email:	John.Schove@testamericainc.com	Email:	George.H.Moreau@parsons.com		

Section C Deliverable Requirements		Purchase Order No:
Report To:	George.H.Moreau@parsons.com	TAT - 10 Day
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	8-MoN-009-MW-03	26	31	8-MoN-009-004-01	08/20/20	11:30	WG	N	16
2	Field QC	–	–	8-MoN-009-004-02	08/20/20	12:00	WQ	EB	2
3	Field QC	–	–	8-MoN-009-004-03	08/20/20	12:05	WQ	FB	2
4	Field QC	–	–	8-MoN-009-004-04	08/20/20	–	WQ	TB	1
5									
6									
7									
8									
9									
10									

8/20/20 AP

Preservative codes (for water only):

	MS/MSD	Composite (Y/N)	PFAS Modified 537	Modified Baseline VOCs 8260	PAHs 8270SIM	1, 4 - Dioxane 8270SIM	Mod Bsln Met/Hg 6010/7470	Hard-SM20 2340C	Ammonia/COD 350.1/410.4	TOC 9060A	SO4/CHL/BRO 300.0	TDS SM2540D	Alkalinity SM20 2320B		Dissolved Mod Metals/Hg 6010/7470
Preservative			0	1	0	0	2	2	3	1	0	0	0		2
#Bottles			2	3	2	2	1	-	1	2	1	1	1		1
1			1	1	1	1	1	1	1	1	1	1	1		
2			1												
3			1												
4				1											

480-174095 Chain of Custody

Special Instructions:

From Syr.: PFAS ⇒ BUT; bal ⇒ BUF, -RE

#1 2.7

Syracuse #225

Samplers Name: Aditya Singh	Company: Parsons ~~12:15~~ AKS	Relinquished By: ASingh	Company: Parsons AKS	Cooler Temp.:	Custody Seals Intact: Yes ☐ No ☐
	Date/Time: 08/20/20 12:15		Date/Time: 08/20/20 17:00	Rec'd on Ice: Yes ☐ No ☐	Samples Intact: Yes ☐ No ☐
Shipment Method:	Shipment Tracking No:	Accepted By: [illegible]	Company: ES-SYR	Cooler Temp.:	Custody Seals Intact: Yes ☐ No ☐
	Date/Time:		Date/Time: 8/20/20 1700	Rec'd on Ice: Yes ☐ No ☐	Samples Intact: Yes ☐ No ☐

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):

Reling: Rc'nglich, Syr, 8-20-20, 1900 — Wallace 8/21/20 0800

Page 1 of 1

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information		Section B Client Information			
Lab Name:	TestAmerica	Company: Parsons		COC #:	8-MoN-009-004
Attention:	John Schove	Attention: George Moreau		Project Name:	ILI - Region 8
Address:	10 Hazelwood Drive Amherst, NY 14228-2298	Address:	301 Plainfield Road, Suite 350 Syracuse, NY 13212	Project Site:	Lyndon Road LF
Phone:	(716) 504-9838	Phone:	315-552-9715	Project Number:	~~450619~~ 452148 AKS
Email:	John.Schove@testamericainc.com	Email:	George.H.Moreau@parsons.com		

Section C Deliverable Requirements

Report To: George.H.Moreau@parsons.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

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.	MS/MSD	Composite (Y/N)	PFAS Modified 537	Modified Baseline VOCs 8260	PAHs 8270SIM	1, 4 - Dioxane 8270SIM	Mod Bsln Met/Hg 6010/7470	Hard-SM20 2340C	Ammonia/COD 350.1/410.4	TOC 9060A	SO4/CHL/BRO 300.0	TDS SM2540D	Alkalinity SM20 2320B		Dissolved Mod Metals/Hg 6010/7470
Preservative codes (for water only):												0	1	0	0	2	2	3	1	0	0	0		2
										#Bottles		2	3	2	2	1	-	1	2	1	1	1		1
1	8-MoN-009-MW-03	26	31	8-MoN-009-004-01	08/20/20	11:30	WG	N	16			1	1	1	1	1	1	1	1	1	1	1		
2	Field QC	-	-	8-MoN-009-004-02	08/20/20	12:00	WQ	EB	2			1												
3	Field QC	-	-	8-MoN-009-004-03	08/20/20	12:05	WQ	FB	2			1												
4	Field QC	-	-	8-MoN-009-004-04	08/20/20	-	WQ	TB	1				1											
5																								
6																								
7																								
8																								
9																								
10																								

AP 08/20/20

480-174095 Chain of Custody

Special Instructions:

From Syr.: PFAS → BUT; bal → BUF. - RE

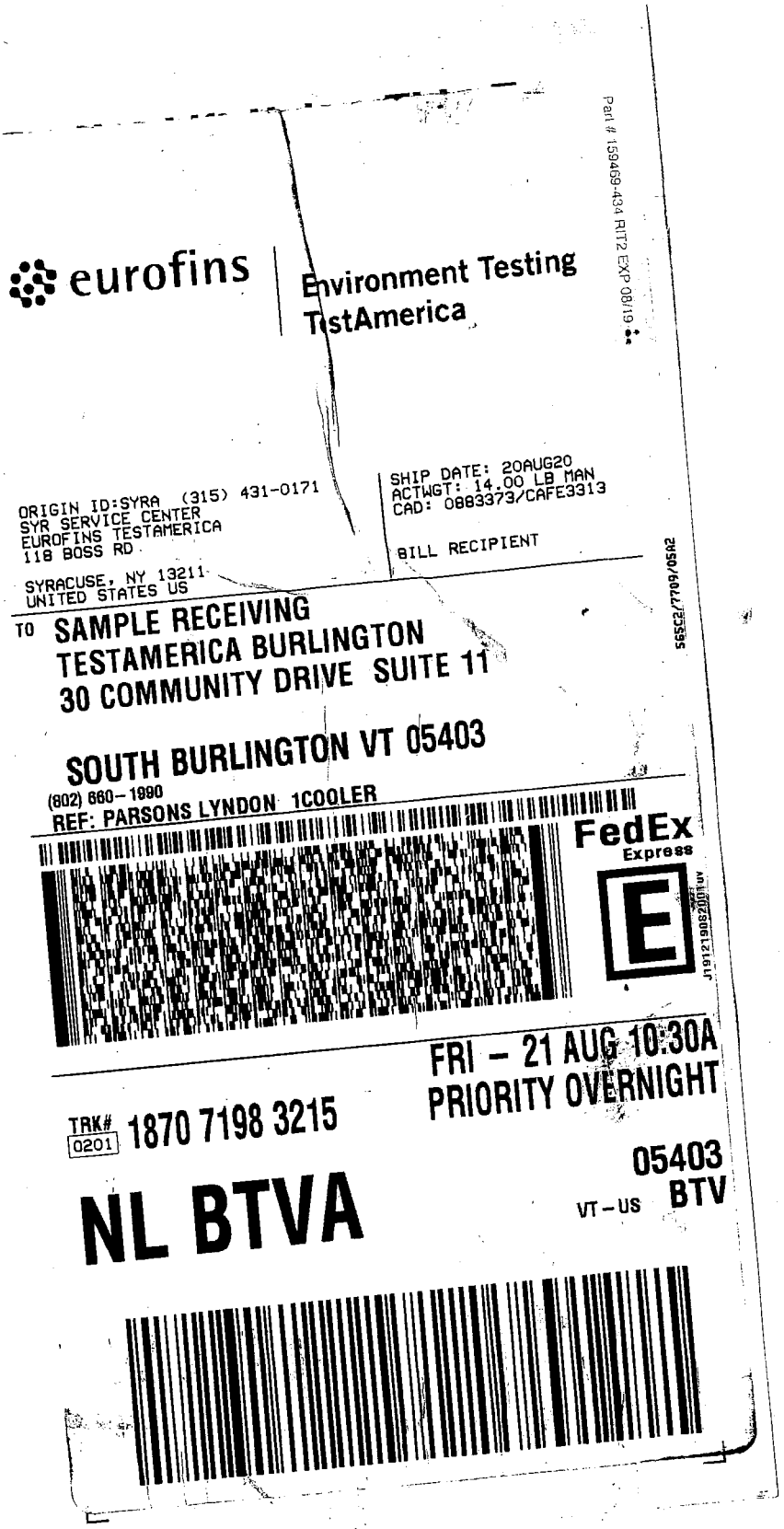
Syracuse
#225

Samplers Name: Aditya Singh	Company: Parsons ~~12:15~~ AKS Date/Time: 08/20/20 12:15	Relinquished By: A Singh	Company: Parsons AKS Date/Time: 08/20/20 17:00	Cooler Temp.: Rec'd on Ice: Yes ☐ No ☐	Custody Seals Intact: Yes ☐ No ☐ Samples Intact: Yes ☐ No ☐
Shipment Method:	Shipment Tracking No: Date/Time:	Accepted By:	Company: ES-Syr Date/Time: 8/20/20 1700	Cooler Temp.: Rec'd on Ice: Yes ☐ No ☐	Custody Seals Intact: Yes ☐ No ☐ Samples Intact: Yes ☐ No ☐

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4)

Reling: RE Reg..., Syr, 8-20-20, 1900

0935 8/21/20


eurofins
Environment Testing
TestAmerica
Part # 159469-434 RIT2 EXP 08/19
ORIGIN ID:SYRA (315) 431-0171
SYR SERVICE CENTER
EUROFINS TESTAMERICA
118 BOSS RD
SYRACUSE, NY 13211
UNITED STATES US
SHIP DATE: 20AUG20
ACTWGT: 14.00 LB MAN
CAD: 0883373/CAFE3313
BILL RECIPIENT
TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: PARSONS LYNDON 1COOLER
FedEx
Express
FRI - 21 AUG 10:30A
PRIORITY OVERNIGHT
TRK# 0201 1870 7198 3215
NL BTVA
05403
VT - US
BTV

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-174095-1

Login Number: 174095

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

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	PARSONS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-174095-1

Login Number: 174095
List Number: 2
Creator: Jaffe, Nat S

List Source: Eurofins TestAmerica, Burlington
List Creation: 08/21/20 02:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1313206
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	0.8ºC
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	AS
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	