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# FIELD ACTIVITIES SUMMARY REPORT

## LITTLE LEAGUE SANITARY LF REGION 8

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

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Prepared For:



**Department of  
Environmental  
Conservation**

New York State Department of Environmental Conservation  
Division of Materials Management  
625 Broadway, 12th Floor  
Albany, NY 12233-7012

Prepared By:



301 Plainfield Road, Suite 350  
Syracuse, New York 13212

**OCTOBER 2020**

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

**Landfill Name:** Little League Sanitary LF

**Region:** 8

**Database ID:** 8120

**Date of Field Activities:** 04/21/2020 – 08/18/2020

**Summary of Field Activities**

Three monitoring wells were installed, developed, and sampled at the Little League Sanitary LF site and two existing wells were sampled to assess impacts to drinking water sources and nearby receptors. Figure 1 shows the well locations, Figure 2 shows surface topography groundwater flow direction, and provides a summary of the analytical data. Borings used for installation of the wells identified fill material from the ground surface to depths between 4 and 7.2 feet. Below the fill material was a layer of generally fine sand and silt to depths between 11.8 and 16.2 feet below ground surface. A clay rich layer was found below the sand and silt. Field activities were performed according to the site-specific work plan and program Field Activities Plan with the only deviation being the collection of a sample from an additional identified existing monitoring well.

**Monitoring Wells Installed**

<b>Monitoring Well ID</b>	<b>Northing</b>	<b>Easting</b>	<b>Top of PVC Casing Elevation (Feet AMSL)</b>	<b>Well Development Date</b>	<b>Comments</b>
MW-01	1128632.327	1462996.418	464.045	04/24/2020	-
MW-02	1128657.824	1463493.718	461.832	04/24/2020	-
MW-03	1127693.104	1463583.289	466.022	04/23/2020	-
MW-04	1128227.354	1462794.920	461.950	04/23/2020	Existing well
MW-05	-	-	-	-	Existing well

## Monitoring Wells Sampled

Monitoring Well ID	Date	Sample Collected (yes/no)	Comments
MW-01	08/18/2020	Yes	Sampled with peristaltic pump at 220 mL/min. Parameters stabilized during purge of 3 gallons.
MW-02	08/18/2020	Yes	Sampled with peristaltic pump at 150 mL/min. Parameters stabilized during purge of 6 gallons.
MW-03	08/17/2020	Yes	Sampled with peristaltic pump at 260 mL/min. Parameters stabilized during purge of 4 gallons.
MW-04	08/17/2020	Yes	Sampled with peristaltic pump at 200 mL/min. Parameters stabilized during purge of 3 gallons.
MW-05	08/17/2020	Yes	Sampled with peristaltic pump at 400 mL/min. Parameters stabilized during purge of 7 gallons.

## Other Samples

Sample Location	Sample Type	Date	Comments
N/A	Field blank	08/17/2020	Field QC sample
N/A	Equipment blank	08/17/2020	Field QC sample
N/A	Trip blank	08/17/2020	Field QC sample
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

## Figures

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

## 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: 9/16/2020

-  Monitoring Well Location
-  Site Boundary
-  Elevation Contour
-  Water Features

0 70 140 280  
 Feet

**Figure 1**



**Department of  
Environmental  
Conservation**

Little League Sanitary Landfill  
Sample Locations

Inactive Landfill Initiative

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





MW-01

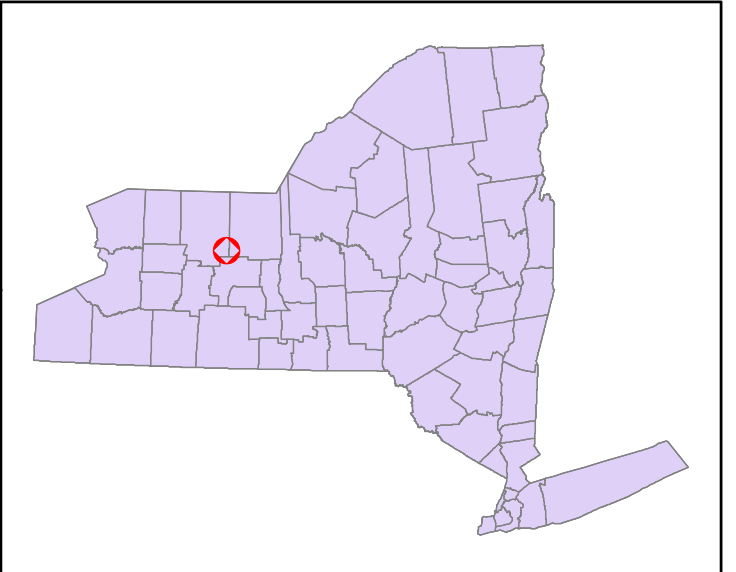
456.40

MW-02

456.97

Chemical Name	Unit	NYSDWQC Recommended MCL	MW-01
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	0.53 J
Perfluorooctanoic acid (PFOA)	ng/l	10	30
1,4-Dioxane (P-Dioxane)	ug/l	1	<0.54

Chemical Name	Unit	NYSDWQC Recommended MCL	MW-02
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	15 I
Perfluorooctanoic acid (PFOA)	ng/l	10	130
1,4-Dioxane (P-Dioxane)	ug/l	1	26 E



MW-04

457.10

Chemical Name	Unit	NYSDWQC Recommended MCL	MW-04
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	<0.56
Perfluorooctanoic acid (PFOA)	ng/l	10	<0.74
1,4-Dioxane (P-Dioxane)	ug/l	1	0.63

Chemical Name	Unit	NYSDWQC Recommended MCL	MW-05
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	<0.52
Perfluorooctanoic acid (PFOA)	ng/l	10	<0.69
1,4-Dioxane (P-Dioxane)	ug/l	1	<0.10

MW-05

458.81

Chemical Name	Unit	NYSDWQC Recommended MCL	MW-03
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	0.53 J
Perfluorooctanoic acid (PFOA)	ng/l	10	0.78 J
1,4-Dioxane (P-Dioxane)	ug/l	1	<0.10

MW-03

**Exceeds NYSDEC Action Limits**

**Monitoring Well Location**

**Groundwater Flow Direction**

**Site Boundary**

**Elevation Contour**

**Water Features**

0 80 160 320 Feet

Water level data collected 8/17/20 and 8/18/20

**Figure 2**

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Little League Sanitary Landfill  
Groundwater Flow Direction and  
Emergent Contaminants Results

Inactive Landfill Initiative

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

Plotted By: CS  
Plot Date: 9/16/2020



## **Attachments**

# **ATTACHMENT 1**

## **WORK PLAN**

*FINAL*

*Site-Specific Work Plan for:*

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**HYDROGEOLOGIC INVESTIGATION AT THE  
LITTLE LEAGUE SANITARY LANDFILL  
NYSDEC REGION 8 – MONROE COUNTY  
PERINTON, NEW YORK**

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*Prepared For:*



**Department of  
Environmental  
Conservation**

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

*Prepared By:*

**PARSONS**

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

**JUNE 2019**

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Figure 2	Site Setting
Figure 3	Site Plan

**Site-Specific Work Plan for  
Hydrogeologic Investigation  
at the Little League Sanitary 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 Little League Sanitary 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 coordinates of the site are 43.09044, -77.403788. The landfill site is located at 99 Lyndon Road in Fairport, Monroe County, New York, known as Tax Map Parcel No: 153.20-1-17. The property is a 49.8-acre parcel that is owned by Fairport Baseball Inc. The location of the landfill within the property is not known with certainty but is believed to be beneath the baseball fields. There is a small stream (Thomas Creek) on the north side of the property, wooded area to the west, a railroad and Erie Canal to the south, and the Granger Landfill and an ice rink to the east. The area is served by a public water supplied by the Monroe County Water Authority. There are no public supply wells within a mile of the landfill, and the landfill is not on a sole-source aquifer.

According to the NYSDEC website, the Little League landfill was reported to have begun operation in 1971. It was operated as a construction and demolition debris site from 1971 to 1976. From 1977 to 1978 it was the disposal site for municipal refuse and construction debris that was removed from the Emerson Street Dump to allow for construction of the A.C. Rochester Plant on Lee Road. The landfill also reportedly contains trees, brush and leaves. The Monroe County Department of Health (MCDH) reports that eight acres of the Little League landfill contain fill, including trees, brush, leaves and construction and demolition debris. The remaining 12 acres of the landfill were filled with refuse from the former Emerson Street Landfill. Fairport Baseball, Inc. obtained a permit in 1976 to complete filling of the site, grading, and seeding prior to construction of eight baseball fields. The refuse from the Emerson Street site was deposited during the term of this permit. In 1978, when this landfill reportedly closed, Part 360 required 2 feet of cover soil with the top 6 inches able to sustain growth, and maintenance for 5 years.

The only evidence of a landfill is a single piece of scrap metal located on the north side of the site and a monitoring well on the west site of the property. The type of waste is C&D, municipal, and industrial waste. There are no leachate seeps.

The depth of the waste is unknown. However, the NYSDEC websites indicates the depth of groundwater in 1989 ranged from ground surface to 15 feet below grade.

### **3.1 GROUNDWATER OCCURRENCE AND FLOW**

According to the NYSDEC website, drilling logs indicate bedrock at depths ranging from 24.8 feet to 50.5 feet across the Little League Landfill site. Soils consist of a mixed till. A basal gravel or highly weathered bedrock zone exists over bedrock and may

represent a significant migration pathway. Water table elevations taken in November 1989 ranged from ground surface to 15 feet below ground surface.

The site is a flat topographic high point with the Erie Canal located approximately 300 feet to the south and a small stream (Thomas Creek) is located immediately north of the property. Groundwater elevation is expected to be at the approximate elevation of the stream, which will be only a few feet below grade. Groundwater flow may be radial.

## 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 Little League Sanitary 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

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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

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There is complete access to the entire site for a drilling rig.

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 enough groundwater for sampling.

Based on the site setting having wetlands surrounding the landfill area, it is anticipated that the wells could be approximately 50 feet deep. 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 feet 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 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. If possible, the survey will tie the new wells into the existing well datum network.



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**

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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 will be analyzed for modified baseline VOCs, polycyclic aromatic hydrocarbons (PAHs), 1,4-dioxane, per- and polyfluoroalkyl substances (PFAS), 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
<b>Leachate Indicators (water samples only)</b>		<b>PAHs + 1,4-Dioxane</b>	
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
<b>Inorganics</b>		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	<b>Per- and polyfluoroalkyl Substances (PFAS)</b>	
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

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

Parameter	Method	Parameter	Method
<b>Per- and polyfluoroalkyl Substances (PFAS) (cont'd)</b>			
		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
Perfluorobutanoic acid (PFBA)	Modified 537	Perfluorooctanesulfonamide (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

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

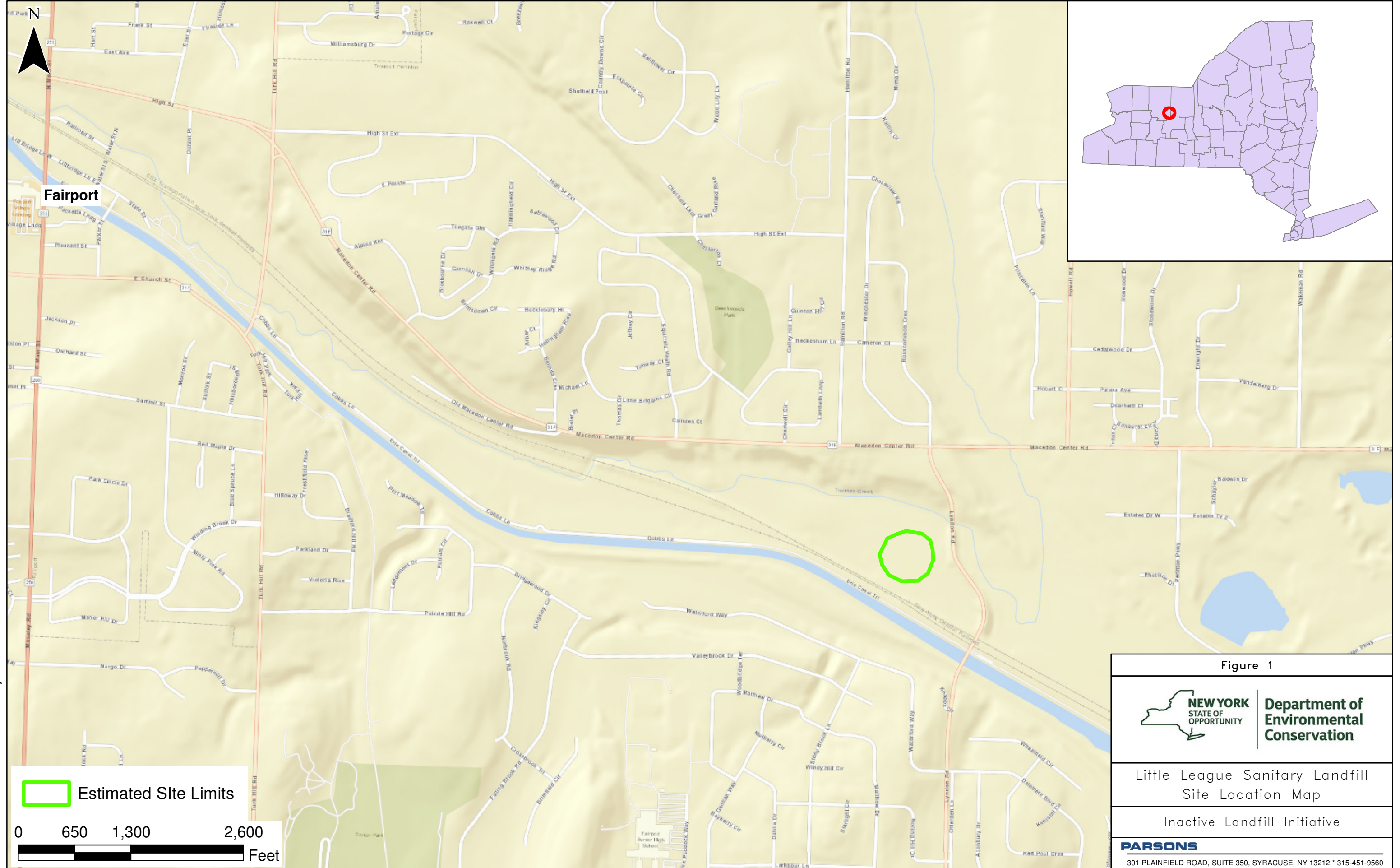
Parameter	Method	Parameter	Method
<b>Volatile Organic Compounds</b>			
Acetone	SW8260C	Ethylbenzene	SW8260C
Acrylonitrile	SW8260C	2-Hexanone	SW8260C
Benzene	SW8260C	Bromomethane	SW8260C
Bromochloromethane	SW8260C	Chloromethane (Methyl chloride)	SW8260C
Bromodichloromethane	SW8260C	Dibromomethane	SW8260C
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

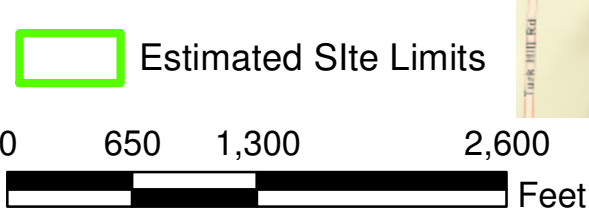
Samples	Matrix	Laboratory Analysis	No. of Samples	Trip Blank	Equipment/ Field Blank	Total
MW-1	Groundwater	See Table 1	1			1
MW-2	Groundwater	See Table 1	1			1
MW-3	Groundwater	See Table 1	1			1
MW-4	Groundwater	See Table 1	1			1
TB-1	Water	VOCs		1*		1
FB-1	Water	PFAS; See Table 1			1*	1
EB-1	Water	PFAS;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

\* Per day





Plot Date: 5/30/2019 Plotted By: RR



**Figure 1**

**NEW YORK**  
STATE OF  
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**Department of  
Environmental  
Conservation**

Little League Sanitary Landfill  
Site Location Map


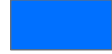
Inactive Landfill Initiative

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





Plot Date: 5/30/2019 Plotted By: RR

— Elevation Contours (feet)  
 Estimated Site Limits  
 Water Feature

0 100 200 400 Feet

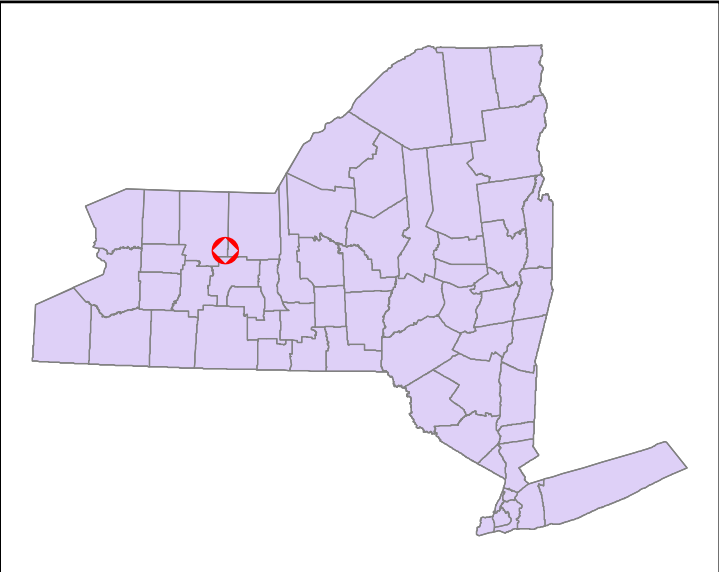



Figure 2


**NEW YORK**  
 STATE OF OPPORTUNITY

**Department of Environmental Conservation**

Little League Sanitary Landfill Site Setting

Inactive Landfill Initiative

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





Plotted By: RR  
Plot Date: 6/10/2019

	Existing Monitoring Well Location
	Proposed Monitoring Well Location
	Estimated Site Limits
	Tax Parcel Boundaries

0 100 200 400 Feet


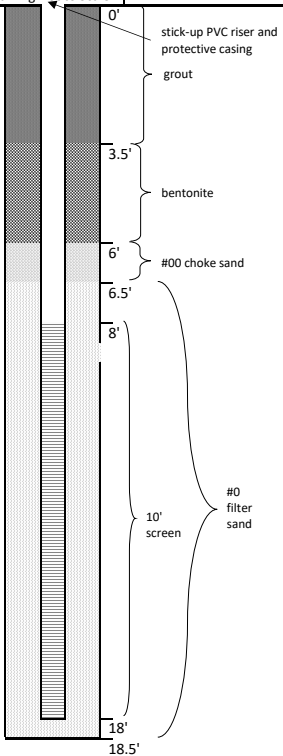
Figure 3


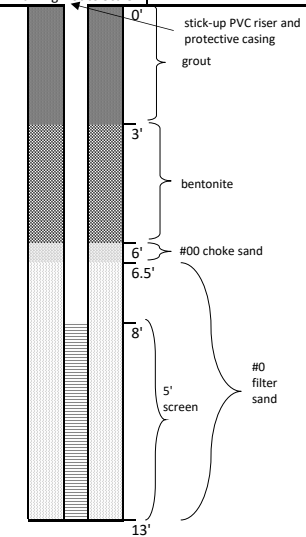
	<b>Department of Environmental Conservation</b>
Little League Sanitary Landfill Site Plan	
Inactive Landfill Initiative	
<b>PARSONS</b>	
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560	


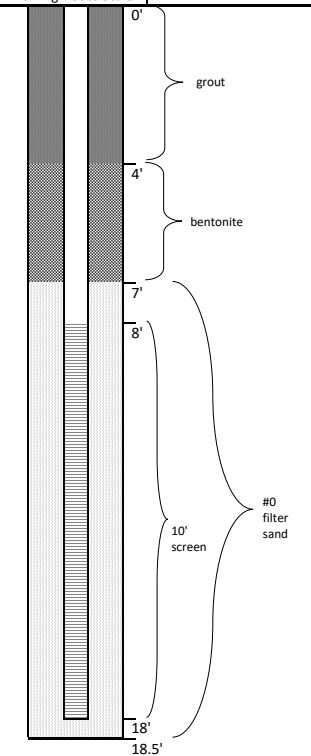


## **ATTACHMENT 2**

### **SOIL BORING/ WELL INSTALLATION LOGS**

Contractor: NW Contracting						PARSONS DRILLING RECORD		BORING/ WELL NO. MW-01		
Driller: Steve Gingrich						PROJECT NAME: Little League Sanitary LF		Page 1 of 1		
Oversight: Richard Inclima						PROJECT Location: Perinton, NY		Location Description:		
Rig Type: Diedrich D-50								43.091513, -77.405175		
GROUNDWATER OBSERVATIONS						Date/Time Start: 4/22/20 -- 1005 Date/Time Finish: 4/22/20 -- 1200				
Apparent Borehole DTW:				9 to 10	ft bls					
Measured Water Level:				6	ft bls					
Total Depth of Well:				18.5	ft bls					
Additional Comments:										
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS	
					1	1-2': damp, soft, dark brown SILT, some subangular f-m gravel and organic material (grass, roots), little c-sand and angular c-gravel, trace cobble, no staining/odor.				
					2	2-4': damp, soft, brown SILT, little angular f-m gravel, trace c-sand and subangular cobbles, no staining/odor.				
					3	4-5': moist, soft, gray-brown SILT, some clay, little subangular f-m gravel and waste (rubber rope), trace angular cobble, no staining/odor.				
					4					
HS	-	-	0.0	ML	5	5-5.5': damp, soft, brown-gray SILT and fine SAND mixture, some organic material (woodchips, grass roots), little c-sand, trace m-c gravel and clay, no staining/odor.				
					6					
SS	1-1-3-2	25%	0.1	ML	7	7-8.2': wet, med. dense, gray fine SAND, some silt, no staining/odor.				
					8					
SS	1-8-7-8	60%	0.0	SM	9	9-9.5': wet, med. dense, gray-brown fine SAND, some silt and clay, no staining/odor.				
					10	9.5-10.2': wet, med. dense, brown-gray fine SAND, some silt, little clay, no staining/odor.				
SS	3-9-16-16	60%	0.3	SM	11	11-12.2': saturated, dense, brown-gray fine SAND, some silt, little clay, no staining/odor. (demonstrates liquefaction)				
					12					
SS	4-11-26-23	60%	0.1	SM	13	13-13.2': saturated, med. dense, brown-gray fine SAND, some clay and silt, no staining/odor.				
					14	13.2-13.4': wet, mod. stiff, brown-gray CLAY, little silt and f-sand, no staining/odor.				
SS	1-6-16-16	50%	0.2	SM	15	13.4-14': saturated, med. dense, brown-gray fine SAND, some clay, little silt, no staining/odor.				
					16	15-16.5': wet, mod. stiff, brown-gray CLAY, little silt and f-sand, no staining/odor.				
SS	2-5-8-9	75%	0.0	CL	17	17-17.8': wet, soft, brown-gray CLAY, little silt and f-sand, no staining/odor.				
SS	2--3	40%	0.0	CL	18					
					19					
<b>SAMPLING METHOD</b> HC = Hand Cleared (post hole) MC=Macro Core SS= Split Spoon HS = Hollow Stem						<b>COMMENTS:</b> Saturated fine sands demonstrate liquefaction; monitoring well constructed of 10' of 2" diameter, SCH 40, 0.010 slotted PVC screen, 10' of 2" diameter, SCH 40 PVC riser, 4.5 bags of #0 filter sand, .5 bags of #00 choke sand, bentonite, Type I-Portland cement, 5' stick-up pro-casing.				

Contractor: NW Contracting						PARSONS DRILLING RECORD						BORING/ WELL NO. MW-02			
Driller: Steve Gingrich						PROJECT NAME: Little League Sanitary LF						Page 1 of 1			
Oversight: Richard Inclima						PROJECT Location: Perinton, NY						Location Description:			
Rig Type: Diedrich D-50						Date/Time Start: 4/22/20 -- 1315						43.091541, -77.403317			
Date/Time Finish: 4/22/20 -- 1530															
GROUNDWATER OBSERVATIONS															
Apparent Borehole DTW:				6		ft bls									
Measured Water Level:				2.5		ft bls									
Total Depth of Well:				13		ft bls									
Additional Comments:															
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL						SCHEMATIC	COMMENTS		
				GM	1	1-2': dry-to-damp, loose, dark gray-gray f-m GRAVEL, some silt and organic material (sticks, roots), no staining/odor.									
					2	2-3': damp-to-wet, soft, dark gray SILT, some subangular m-c gravel, little waste (brick, mulch chunks) and organic material (sticks, roots), trace subrounded cobble, no staining/odor.									
				ML	3	3-4': wet, soft, dark gray CLAY and SILT mixture, some waste (brick chunks, woodchips), trace m-gravel, no staining/odor.									
					4	4-5': wet, loose, gray fine SAND and silt, little clay, trace angular c-gravel, no staining/odor.									
HS	-	-	0.2	SM	5	5-6': wet, med. dense, brown-gray fine SAND, some clay, no staining/odor.									
					6	6-6.2': saturated, med. dense, brown-gray fine SAND, some silt, little clay, no staining/odor. (demonstrates liquefaction)									
SS	6-10-10-13	60%	0.0	SM	7	7-8.2': saturated, med. dense, brown-gray fine SAND, some silt, little clay, no staining/odor.									
					8										
SS	3-7-11-14	60%	0.1	SM	9	9-10': saturated, med. dense, brown-gray fine SAND, some silt, little clay, no staining/odor.									
					10	10-10.4': wet, med. dense, brown-gray fine SAND and clay, little silt, no staining/odor.									
SS	5-12-12-11	70%	0.2	SC	11	11-11.8': saturated, med. dense, brown-gray fine SAND and intermittent clay lenses, little silt, no staining/odor.									
				SC	12										
SS	3-10-14-15	60%	0.0	CL	13	11.8-12.2': wet, mod. stiff, brown-gray CLAY, little f-sand and silt, no staining/odor.									
<b>SAMPLING METHOD</b> HC = Hand Cleared (post hole) MC=Macro Core SS= Split Spoon HS = Hollow Stem						<b>COMMENTS:</b> Saturated fine sands demonstrate liquefaction; monitoring well constructed of 5' of 2" diameter, SCH 40, 0.010 slotted PVC screen, 10' of 2" diameter, SCH 40 PVC riser, 2.5 bags of #0 filter sand, .5 bags of #00 choke sand, bentonite, Type I-Portland cement, 5' stick-up pro-casing.									

Contractor: NW Contracting						PARSONS DRILLING RECORD						BORING/ WELL NO. MW-03		
Driller: Steve Gingrich						PROJECT NAME: Little League Sanitary LF						Page 1 of 1		
Oversight: Richard Inclima						PROJECT Location: Perinton, NY						Location Description:		
Rig Type: Diedrich D-50						43.088893, -77.403023								
GROUNDWATER OBSERVATIONS														
Apparent Borehole DTW: 10 ft bls						Date/Time Start: 4/21/20 -- 1130								
Measured Water Level: 4 ft bls						Date/Time Finish: 4/21/20 -- 1500								
Total Depth of Well: 18.5 ft bls														
Additional Comments:														
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL						Schematic	COMMENTS	
					1	1-3': damp, soft, dark brown SILT and fine SAND, some asphalt chunks (1-4" diameter), little subrounded m-c gravel, trace subrounded cobbles and organic material (sticks), no staining/odor.								
					2	3-4': damp, loose, gray medium SAND, some organic material (block woodchips) and silt, little waste (metal spring), no staining/odor.								
					3	4-5': damp, loose, dark gray fine SAND and silt, some organic material (sticks, roots), little m-c subrounded gravel, no staining/odor.								
					4									
HC	-	-	0.0	SM	5	5-6': damp, stiff, black SILT and organic material (peat, wood) and fine sand, no staining, decomposing plant material smell.								
					6									
SS	3-3-4-3	50%	0.7	ML	7	7-7.2': damp, stiff, black SILT, organic material (peat, wood) and fine sand, no staining, decomposing plant material smell.								
					8	7.2-8.2': damp, loose, gray f-m SAND, little angular f-m gravel.								
SS	1-4-5-4	75%	0.6	ML	9	8.2-8.5': damp, mod. stiff, gray SILT and CLAY mixture, trace f-gravel.								
					10	9-10': damp-to-wet, med. dense, brown-red fine SAND, trace organic material (peat, roots), no staining, decomposing plant smell.								
SS	9-13-14-17	50%	0.6	SW	11	11-12': saturated, med. dense, light brown-red fine SAND, no staining/odor. (demonstrates liquefaction)								
					12									
SS	2-9-11-10	50%	0.5	SW	13	13-14': saturated, med. dense, light brown-red fine SAND, some silt, no staining/odor.								
					14									
SS	3-9-14-15	50%	0.3	SM	15	15-16.2': saturated, med. dense, light brown-red fine SAND, some silt and clay, no staining/odor.								
					16									
SS	4-18-24-15	60%	0.3	SM	17	17-18.6': wet, mod. stiff, brown-gray CLAY, intermittent thin f-sand lenses, little silt, no staining/odor.								
					18									
SS	2-6-9-9	80%	0.4	CL	19									
<b>SAMPLING METHOD</b> HC = Hand Cleared (post hole) MC=Macro Core SS= Split Spoon						<b>COMMENTS:</b> Saturated fine sands demonstrate liquefaction; monitoring well constructed of 10' of 2" diameter, SCH 40, 0.010 slotted PVC screen, 10' of 2" diameter, SCH 40 PVC riser, 4 bags of #10 filter sand, bentonite, Type I-Portland cement, 5' stick-up pro-casing; omitted choke sand to make enough room for bentonite to sit below the waste.								

**ATTACHMENT 3**

**SAMPLING LOGS**

**Low Flow Ground Water Sampling Log**

Date 08/18/20 Personnel AKS, KM, AC Weather 68 F, Sunny  
 Site Name Little League Sanitary LF Evacuation Method Low Flow Well # MW-01  
 Site Location Fairport, NY Sampling Method Peri Pump + HDPE Project # 452148:08000

**Well information:**

Depth of Well 20.33 ft. \*Measurements taken from:  
 Depth to Water 7.65 ft.  Top of Well Casing  
 H<sub>wc</sub> 12.68 ft.  Top of Protective Casing  
 Depth to Intake 15 ft.  (Other, Specify)

Start Purge Time: 09:30

Elapsed Time (min)	Depth to Water (ft)	10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
		Temperature (celsius)	pH	Conductivity (ms/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Flow Rate (mL/min)
0	8.79	17.57	6.09	3.86	-141	2.55	22.3	220
5	8.8	16.65	6.41	3.78	-157	0.06	29.5	220
10	8.9	16.77	6.43	3.77	-158	0	18.5	220
15	8.9	16.83	6.44	3.77	-157	0	10.8	220
20	8.9	16.74	6.44	3.78	-156	0	6.5	220
25	9.18	16.69	6.44	3.78	-154	0	3.9	220
30	9.18	16.76	6.44	3.79	-153	0	1.1	220

End Purge Time: 10:00

**Water Sample**

Time Collected: 10:15 Total volume of purged water removed: 3 (gallons)  
 Physical appearance at start: Physical appearance at start:  
 Color Clear Color Clear  
 Odor None Odor None  
 Sheen/Free Product None Sheen/Free Product None

**Samples:** (See list of parameters collected below)

**MS/MSD/Field Dup?**

8-MON-006-002-01

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	08/17/20		Personnel	AKS,AC,KM		Weather		72 F, Cloudy
Site Name	Little League Sanitary LF		Evacuation Method	Low Flow		Well #		MW-05 (Existing Well)
Site Location	Fairport, NY		Sampling Method	Peri Pump + HDPE		Project #		452148:08000
<b>Well information:</b>								
Depth of Well	30.45 ft.		*Measurements taken from:					
Depth to Water	4.36 ft.				<input type="checkbox"/> Top of Well Casing <input checked="" type="checkbox"/> Top of Protective Casing (Other, Specify)			
H <sub>wc</sub>	26.09 ft.							
Depth to Intake	24 ft.							
Start Purge Time: 11:00								
		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	4.36	17.35	7.27	1.65	-197	3.75	149	400
5	4.33	14.72	6.97	1.97	-157	0	128	400
10	4.33	15.05	6.95	1.99	-152	0	116	400
15	4.33	14.98	6.95	2.01	-152	0	101	400
20	4.33	15.04	6.94	2.02	-151	0	94.5	400
25	4.33	14.86	6.94	2.01	-155	0	84.7	400
30	4.35	15.1	6.95	1.88	-158	0	79.1	400
35	4.35	15.39	6.93	1.98	-152	0	72.4	400
40	4.35	15.27	6.94	2	-153	0	65.6	400
45	4.35	15.17	6.94	2.01	-153	0	54.2	400
50	4.35	14.96	6.94	2.04	-153	0	50.6	400
55	4.35	15.02	6.94	2.03	-153	0	48.4	400
60	4.35	15.12	6.94	2.03	-153	0	51	400
65	4.35	15.17	6.94	2.04	-153	0	44.5	400
70	4.35	15.19	6.94	2.04	-153	0	39.6	400
75	4.35	15.11	6.94	2.04	-153	0	37.2	400
80	4.35	15.14	6.93	2.05	-153	0	38.4	400
End Purge Time: 12:20								
<b>Water Sample</b>								
Time Collected:	12:30		Total volume of purged water removed:			7 (gallons)		
Physical appearance at start:			Physical appearance at start:					
	Color	Clear				Color	Clear	
	Odor	None				Odor	None	
	Sheen/Free Product	None				Sheen/Free Product	None	
<b>Samples:</b> (See list of parameters collected below)								
MS/MSD/Field Dup?								
8-MON-006-001-02								
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**

## ANALYTICAL REPORT

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

Laboratory Job ID: 480-173915-1

Client Project/Site: 8-MON-006 Little League Sanitary LF

**For:**

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

Attn: Mr. George Moreau



*Authorized for release by:  
8/28/2020 5:25:03 PM*

John Schove, Project Manager II  
(716)504-9838

[John.Schove@Eurofinset.com](mailto:John.Schove@Eurofinset.com)

Designee for

Joe Giacomazza, Project Manager I  
(716)691-2600

[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

### LINKS

Review your project  
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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

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

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



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# Definitions/Glossary

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## Qualifiers

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

# Case Narrative

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## Job ID: 480-173915-1

### Laboratory: Eurofins TestAmerica, Buffalo

#### Narrative

#### Job Narrative 480-173915-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/18/2020 10:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 2.9° C.

#### GC/MS VOA

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

#### GC/MS Semi VOA

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

#### HPLC/IC

Method 300.0: The following sample was diluted due to the nature of the sample matrix: 8-MON-006-001-01 (480-173915-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: 8-MON-006-001-02 (480-173915-2) and 8-MON-006-001-03 (480-173915-3). 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 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-006-001-01 (480-173915-1), 8-MON-006-001-02 (480-173915-2), 8-MON-006-001-03 (480-173915-3), (LCS 480-545970/2-A), (LCSD 480-545970/25-A) and (MB 480-545970/1-A)

Method 6010C: The low level continuing calibration verification (CCVL 480-546476/39) recovered above the upper control limit for Total Cadmium. 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 8-MON-006-001-01 (480-173915-1), 8-MON-006-001-02 (480-173915-2), 8-MON-006-001-03 (480-173915-3) and (LCSD 480-545970/25-A) was not performed.

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.

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 samples deviated from the standard procedure: 8-MON-006-001-02 (480-173915-2) and 8-MON-006-001-03 (480-173915-3). 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): 8-MON-006-001-01 (480-173915-1), 8-MON-006-001-02 (480-173915-2), 8-MON-006-001-03 (480-173915-3), (480-173868-I-4), (480-173868-I-4 MS) and (480-173868-I-4 MSD).

# Case Narrative

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

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## Job ID: 480-173915-1 (Continued)

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### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

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

#### Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-545767.

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

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# Detection Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-01**

**Lab Sample ID: 480-173915-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.83	J B	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	4.5		1.7	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.3		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.53	J	1.7	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.78	J	1.7	0.69	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.61	J	1.7	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.2	J	1.7	0.67	ng/L	1		537 (modified)	Total/NA
Aluminum	0.068	J	0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.013	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.29	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.15		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	133		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	5.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	14.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.085	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	3.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	24.8		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	18.9		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	29.5		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.70		0.020	0.0090	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	14.2	B	10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	2.6		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	414		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	380		10.0	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	111		10.0	4.0	mg/L	1		SM 2540C	Total/NA

**Client Sample ID: 8-MON-006-001-02**

**Lab Sample ID: 480-173915-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.69	J B	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	2.8		1.7	0.85	ng/L	1		537 (modified)	Total/NA
Barium	0.016	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.67		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	474		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	3.7		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	40.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.060	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	7.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	47.8		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0018	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Chloride	80.7		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	1050		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.30		0.020	0.0090	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	22.8	B	10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	1.3		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	206		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	1300		10.0	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	1170		20.0	8.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## Client Sample ID: 8-MON-006-001-03

Lab Sample ID: 480-173915-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.63		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.6	J B	1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	360		1.8	0.92	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.6	J	1.8	0.70	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.6	J	1.8	0.58	ng/L	1		537 (modified)	Total/NA
Aluminum	0.061	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.039	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.31		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	224		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	2.9		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	21.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.026	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	3.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	75.4		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	133		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	239		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.16		0.020	0.0090	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	31.8	B	10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	3.4		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	386		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	630		10.0	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	2150		20.0	8.0	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: 8-MON-006-001-04

Lab Sample ID: 480-173915-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.66	J B	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	1.2	J	1.7	0.87	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 8-MON-006-001-05

Lab Sample ID: 480-173915-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.64	J B	1.9	0.47	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 8-MON-006-001-06

Lab Sample ID: 480-173915-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-01**

**Lab Sample ID: 480-173915-1**

Date Collected: 08/17/20 10:30

Matrix: Water

Date Received: 08/18/20 10:30

**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 11:18	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/20 11:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/20 11:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/20 11:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/20 11:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/20 11:18	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/24/20 11:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/20 11:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/20 11:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/20 11:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/20 11:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/20 11:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/20 11:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/20 11:18	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/20 11:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/20 11:18	1
Acetone	ND		10	3.0	ug/L			08/24/20 11:18	1
Acrylonitrile	ND		5.0	0.83	ug/L			08/24/20 11:18	1
Benzene	ND		1.0	0.41	ug/L			08/24/20 11:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/20 11:18	1
Bromoform	ND		1.0	0.26	ug/L			08/24/20 11:18	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/20 11:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/20 11:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/20 11:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/20 11:18	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/24/20 11:18	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/20 11:18	1
Chloroform	ND		1.0	0.34	ug/L			08/24/20 11:18	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/20 11:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/20 11:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/20 11:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/20 11:18	1
Dibromomethane	ND		1.0	0.41	ug/L			08/24/20 11:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/20 11:18	1
Iodomethane	ND		1.0	0.30	ug/L			08/24/20 11:18	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/24/20 11:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/20 11:18	1
o-Xylene	ND		1.0	0.76	ug/L			08/24/20 11:18	1
Styrene	ND		1.0	0.73	ug/L			08/24/20 11:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/20 11:18	1
Toluene	ND		1.0	0.51	ug/L			08/24/20 11:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/20 11:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/20 11:18	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/24/20 11:18	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/20 11:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/20 11:18	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/24/20 11:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/20 11:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/24/20 11:18	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-01**

**Lab Sample ID: 480-173915-1**

Date Collected: 08/17/20 10:30

Matrix: Water

Date Received: 08/18/20 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		08/24/20 11:18	1
4-Bromofluorobenzene (Surr)	100		73 - 120		08/24/20 11:18	1
Dibromofluoromethane (Surr)	100		75 - 123		08/24/20 11:18	1
Toluene-d8 (Surr)	99		80 - 120		08/24/20 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		08/19/20 14:47	08/21/20 14:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	23		15 - 110	08/19/20 14:47	08/21/20 14:56	1

**Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		08/19/20 09:11	08/22/20 02:22	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/19/20 09:11	08/22/20 02:22	1
Anthracene	ND		0.50	0.39	ug/L		08/19/20 09:11	08/22/20 02:22	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/19/20 09:11	08/22/20 02:22	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/19/20 09:11	08/22/20 02:22	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/19/20 09:11	08/22/20 02:22	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/19/20 09:11	08/22/20 02:22	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/19/20 09:11	08/22/20 02:22	1
Chrysene	ND		0.50	0.32	ug/L		08/19/20 09:11	08/22/20 02:22	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/19/20 09:11	08/22/20 02:22	1
Fluoranthene	ND		0.50	0.36	ug/L		08/19/20 09:11	08/22/20 02:22	1
Fluorene	ND		0.50	0.37	ug/L		08/19/20 09:11	08/22/20 02:22	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/19/20 09:11	08/22/20 02:22	1
Naphthalene	ND		0.50	0.42	ug/L		08/19/20 09:11	08/22/20 02:22	1
Phenanthrene	ND		0.50	0.38	ug/L		08/19/20 09:11	08/22/20 02:22	1
Pyrene	ND		0.50	0.36	ug/L		08/19/20 09:11	08/22/20 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		48 - 120	08/19/20 09:11	08/22/20 02:22	1
Nitrobenzene-d5	95		46 - 120	08/19/20 09:11	08/22/20 02:22	1
p-Terphenyl-d14	77		24 - 136	08/19/20 09:11	08/22/20 02:22	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		08/20/20 14:30	08/21/20 21:00	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.7	ng/L		08/20/20 14:30	08/21/20 21:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	ND		17	1.3	ng/L		08/20/20 14:30	08/21/20 21:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		08/20/20 14:30	08/21/20 21:00	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.83</b>	<b>J B</b>	1.7	0.42	ng/L		08/20/20 14:30	08/24/20 16:09	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>4.5</b>		1.7	0.85	ng/L		08/20/20 14:30	08/24/20 16:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77	ng/L		08/20/20 14:30	08/21/20 21:00	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.66	ng/L		08/20/20 14:30	08/21/20 21:00	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		08/20/20 14:30	08/21/20 21:00	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-01**

**Lab Sample ID: 480-173915-1**

Date Collected: 08/17/20 10:30

Matrix: Water

Date Received: 08/18/20 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.81	ng/L		08/20/20 14:30	08/21/20 21:00	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.78	ng/L		08/20/20 14:30	08/21/20 21:00	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.68	ng/L		08/20/20 14:30	08/21/20 21:00	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65	ng/L		08/20/20 14:30	08/21/20 21:00	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>3.3</b>		1.7	0.23	ng/L		08/20/20 14:30	08/21/20 21:00	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.5	8.5	ng/L		08/20/20 14:30	08/21/20 21:00	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>0.53</b>	<b>J</b>	1.7	0.52	ng/L		08/20/20 14:30	08/21/20 21:00	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.78</b>	<b>J</b>	1.7	0.69	ng/L		08/20/20 14:30	08/21/20 21:00	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>0.61</b>	<b>J</b>	1.7	0.54	ng/L		08/20/20 14:30	08/21/20 21:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79	ng/L		08/20/20 14:30	08/21/20 21:00	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.51	ng/L		08/20/20 14:30	08/21/20 21:00	1
<b>Perfluoroundecanoic acid (PFUnA)</b>	<b>1.2</b>	<b>J</b>	1.7	0.67	ng/L		08/20/20 14:30	08/21/20 21:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	99		50 - 150	08/20/20 14:30	08/21/20 21:00	1
13C2 PFDoA	93		50 - 150	08/20/20 14:30	08/21/20 21:00	1
13C2 PFHxA	93		50 - 150	08/20/20 14:30	08/21/20 21:00	1
13C2 PFUnA	88		50 - 150	08/20/20 14:30	08/21/20 21:00	1
13C2 PFTeDA	86		50 - 150	08/20/20 14:30	08/21/20 21:00	1
13C4 PFBA	84		25 - 150	08/20/20 14:30	08/24/20 16:09	1
13C4 PFOA	87		50 - 150	08/20/20 14:30	08/21/20 21:00	1
13C4 PFOS	88		50 - 150	08/20/20 14:30	08/21/20 21:00	1
13C4 PFHpA	95		50 - 150	08/20/20 14:30	08/21/20 21:00	1
13C5 PFNA	98		50 - 150	08/20/20 14:30	08/21/20 21:00	1
13C5 PFPeA	90		25 - 150	08/20/20 14:30	08/21/20 21:00	1
13C8 FOSA	76		25 - 150	08/20/20 14:30	08/21/20 21:00	1
18O2 PFHxS	91		50 - 150	08/20/20 14:30	08/21/20 21:00	1
d3-NMeFOSAA	82		50 - 150	08/20/20 14:30	08/21/20 21:00	1
d5-NEtFOSAA	82		50 - 150	08/20/20 14:30	08/21/20 21:00	1
M2-6:2 FTS	91		25 - 150	08/20/20 14:30	08/21/20 21:00	1
M2-8:2 FTS	91		25 - 150	08/20/20 14:30	08/21/20 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>0.068</b>	<b>J</b>	0.20	0.060	mg/L		08/20/20 10:25	08/21/20 14:45	1
Antimony	ND		0.020	0.0068	mg/L		08/20/20 10:25	08/21/20 14:45	1
<b>Arsenic</b>	<b>0.013</b>	<b>J</b>	0.015	0.0056	mg/L		08/20/20 10:25	08/21/20 14:45	1
<b>Barium</b>	<b>0.29</b>	<b>^</b>	0.0020	0.00070	mg/L		08/20/20 10:25	08/21/20 14:45	1
Beryllium	ND		0.0020	0.00030	mg/L		08/20/20 10:25	08/21/20 14:45	1
<b>Boron</b>	<b>0.15</b>		0.020	0.0040	mg/L		08/20/20 10:25	08/21/20 14:45	1
Cadmium	ND	<b>^</b>	0.0020	0.00050	mg/L		08/20/20 10:25	08/21/20 14:45	1
<b>Calcium</b>	<b>133</b>		0.50	0.10	mg/L		08/20/20 10:25	08/21/20 14:45	1
Chromium	ND		0.0040	0.0010	mg/L		08/20/20 10:25	08/21/20 14:45	1
Cobalt	ND		0.0040	0.00063	mg/L		08/20/20 10:25	08/21/20 14:45	1
Copper	ND		0.010	0.0016	mg/L		08/20/20 10:25	08/21/20 14:45	1
<b>Iron</b>	<b>5.5</b>		0.050	0.019	mg/L		08/20/20 10:25	08/21/20 14:45	1
Lead	ND		0.010	0.0030	mg/L		08/20/20 10:25	08/21/20 14:45	1
<b>Magnesium</b>	<b>14.1</b>		0.20	0.043	mg/L		08/20/20 10:25	08/21/20 14:45	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-01**

**Lab Sample ID: 480-173915-1**

Date Collected: 08/17/20 10:30

Matrix: Water

Date Received: 08/18/20 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.085</b>	<b>B</b>	0.0030	0.00040	mg/L		08/20/20 10:25	08/21/20 14:45	1
Nickel	ND		0.010	0.0013	mg/L		08/20/20 10:25	08/21/20 14:45	1
<b>Potassium</b>	<b>3.9</b>		0.50	0.10	mg/L		08/20/20 10:25	08/21/20 14:45	1
Selenium	ND		0.025	0.0087	mg/L		08/20/20 10:25	08/21/20 14:45	1
Silver	ND		0.0060	0.0017	mg/L		08/20/20 10:25	08/21/20 14:45	1
<b>Sodium</b>	<b>24.8</b>		1.0	0.32	mg/L		08/20/20 10:25	08/21/20 14:45	1
Thallium	ND		0.020	0.010	mg/L		08/20/20 10:25	08/21/20 14:45	1
Vanadium	ND		0.0050	0.0015	mg/L		08/20/20 10:25	08/21/20 14:45	1
Zinc	ND		0.010	0.0015	mg/L		08/20/20 10:25	08/21/20 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/20/20 12:40	08/20/20 15:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			08/21/20 00:04	5
<b>Chloride</b>	<b>18.9</b>		2.5	1.4	mg/L			08/21/20 00:04	5
<b>Sulfate</b>	<b>29.5</b>		10.0	1.7	mg/L			08/21/20 00:04	5
<b>Ammonia</b>	<b>0.70</b>		0.020	0.0090	mg/L			08/19/20 10:43	1
<b>Chemical Oxygen Demand</b>	<b>14.2</b>	<b>B</b>	10.0	5.0	mg/L			08/19/20 20:17	1
<b>Total Organic Carbon</b>	<b>2.6</b>		1.0	0.43	mg/L			08/27/20 03:59	1
<b>Alkalinity, Total</b>	<b>414</b>		5.0	0.79	mg/L			08/21/20 20:25	1
<b>Total hardness as CaCO3</b>	<b>380</b>		10.0	2.6	mg/L			08/19/20 12:15	1
<b>Total Dissolved Solids</b>	<b>111</b>		10.0	4.0	mg/L			08/19/20 16:39	1

**Client Sample ID: 8-MON-006-001-02**

**Lab Sample ID: 480-173915-2**

Date Collected: 08/17/20 12:30

Matrix: Water

Date Received: 08/18/20 10:30

**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 11:41	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/20 11:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/20 11:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/20 11:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/20 11:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/20 11:41	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/24/20 11:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/20 11:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/20 11:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/20 11:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/20 11:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/20 11:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/20 11:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/20 11:41	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/20 11:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/20 11:41	1
Acetone	ND		10	3.0	ug/L			08/24/20 11:41	1
Acrylonitrile	ND		5.0	0.83	ug/L			08/24/20 11:41	1

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-02**

**Lab Sample ID: 480-173915-2**

Date Collected: 08/17/20 12:30

Matrix: Water

Date Received: 08/18/20 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/24/20 11:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/20 11:41	1
Bromoform	ND		1.0	0.26	ug/L			08/24/20 11:41	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/20 11:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/20 11:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/20 11:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/20 11:41	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/24/20 11:41	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/20 11:41	1
Chloroform	ND		1.0	0.34	ug/L			08/24/20 11:41	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/20 11:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/20 11:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/20 11:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/20 11:41	1
Dibromomethane	ND		1.0	0.41	ug/L			08/24/20 11:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/20 11:41	1
Iodomethane	ND		1.0	0.30	ug/L			08/24/20 11:41	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/24/20 11:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/20 11:41	1
o-Xylene	ND		1.0	0.76	ug/L			08/24/20 11:41	1
Styrene	ND		1.0	0.73	ug/L			08/24/20 11:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/20 11:41	1
Toluene	ND		1.0	0.51	ug/L			08/24/20 11:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/20 11:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/20 11:41	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/24/20 11:41	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/20 11:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/20 11:41	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/24/20 11:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/20 11:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/24/20 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		08/24/20 11:41	1
4-Bromofluorobenzene (Surr)	101		73 - 120		08/24/20 11:41	1
Dibromofluoromethane (Surr)	103		75 - 123		08/24/20 11:41	1
Toluene-d8 (Surr)	99		80 - 120		08/24/20 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		08/19/20 14:47	08/21/20 15:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	22		15 - 110	08/19/20 14:47	08/21/20 15:18	1

**Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		08/19/20 09:11	08/22/20 02:52	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/19/20 09:11	08/22/20 02:52	1
Anthracene	ND		0.50	0.39	ug/L		08/19/20 09:11	08/22/20 02:52	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/19/20 09:11	08/22/20 02:52	1

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-02**

**Lab Sample ID: 480-173915-2**

Date Collected: 08/17/20 12:30

Matrix: Water

Date Received: 08/18/20 10:30

**Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/19/20 09:11	08/22/20 02:52	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/19/20 09:11	08/22/20 02:52	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/19/20 09:11	08/22/20 02:52	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/19/20 09:11	08/22/20 02:52	1
Chrysene	ND		0.50	0.32	ug/L		08/19/20 09:11	08/22/20 02:52	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/19/20 09:11	08/22/20 02:52	1
Fluoranthene	ND		0.50	0.36	ug/L		08/19/20 09:11	08/22/20 02:52	1
Fluorene	ND		0.50	0.37	ug/L		08/19/20 09:11	08/22/20 02:52	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/19/20 09:11	08/22/20 02:52	1
Naphthalene	ND		0.50	0.42	ug/L		08/19/20 09:11	08/22/20 02:52	1
Phenanthrene	ND		0.50	0.38	ug/L		08/19/20 09:11	08/22/20 02:52	1
Pyrene	ND		0.50	0.36	ug/L		08/19/20 09:11	08/22/20 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		48 - 120				08/19/20 09:11	08/22/20 02:52	1
Nitrobenzene-d5	93		46 - 120				08/19/20 09:11	08/22/20 02:52	1
p-Terphenyl-d14	71		24 - 136				08/19/20 09:11	08/22/20 02:52	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		08/20/20 14:30	08/21/20 21:08	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.7	ng/L		08/20/20 14:30	08/21/20 21:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEFOSAA)	ND		17	1.3	ng/L		08/20/20 14:30	08/21/20 21:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		08/20/20 14:30	08/21/20 21:08	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.69</b>	<b>J B</b>	1.7	0.42	ng/L		08/20/20 14:30	08/21/20 21:08	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>2.8</b>		1.7	0.85	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.66	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.81	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.78	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.68	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.5	8.5	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.52	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.69	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.51	ng/L		08/20/20 14:30	08/21/20 21:08	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.67	ng/L		08/20/20 14:30	08/21/20 21:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	89		50 - 150				08/20/20 14:30	08/21/20 21:08	1
13C2 PFDoA	87		50 - 150				08/20/20 14:30	08/21/20 21:08	1
13C2 PFHxA	105		50 - 150				08/20/20 14:30	08/21/20 21:08	1

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-02**

**Lab Sample ID: 480-173915-2**

Date Collected: 08/17/20 12:30

Matrix: Water

Date Received: 08/18/20 10:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	82		50 - 150	08/20/20 14:30	08/21/20 21:08	1
13C2 PFTeDA	81		50 - 150	08/20/20 14:30	08/21/20 21:08	1
13C4 PFBA	94		25 - 150	08/20/20 14:30	08/21/20 21:08	1
13C4 PFOA	93		50 - 150	08/20/20 14:30	08/21/20 21:08	1
13C4 PFOS	87		50 - 150	08/20/20 14:30	08/21/20 21:08	1
13C4 PFHpA	95		50 - 150	08/20/20 14:30	08/21/20 21:08	1
13C5 PFNA	97		50 - 150	08/20/20 14:30	08/21/20 21:08	1
13C5 PFPeA	100		25 - 150	08/20/20 14:30	08/21/20 21:08	1
13C8 FOSA	75		25 - 150	08/20/20 14:30	08/21/20 21:08	1
18O2 PFHxS	95		50 - 150	08/20/20 14:30	08/21/20 21:08	1
d3-NMeFOSAA	78		50 - 150	08/20/20 14:30	08/21/20 21:08	1
d5-NEtFOSAA	78		50 - 150	08/20/20 14:30	08/21/20 21:08	1
M2-6:2 FTS	90		25 - 150	08/20/20 14:30	08/21/20 21:08	1
M2-8:2 FTS	95		25 - 150	08/20/20 14:30	08/21/20 21:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/20/20 10:25	08/21/20 14:49	1
Antimony	ND		0.020	0.0068	mg/L		08/20/20 10:25	08/21/20 14:49	1
Arsenic	ND		0.015	0.0056	mg/L		08/20/20 10:25	08/21/20 14:49	1
<b>Barium</b>	<b>0.016</b>	<b>^</b>	0.0020	0.00070	mg/L		08/20/20 10:25	08/21/20 14:49	1
Beryllium	ND		0.0020	0.00030	mg/L		08/20/20 10:25	08/21/20 14:49	1
<b>Boron</b>	<b>0.67</b>		0.020	0.0040	mg/L		08/20/20 10:25	08/21/20 14:49	1
Cadmium	ND	<b>^</b>	0.0020	0.00050	mg/L		08/20/20 10:25	08/21/20 14:49	1
<b>Calcium</b>	<b>474</b>		0.50	0.10	mg/L		08/20/20 10:25	08/21/20 14:49	1
Chromium	ND		0.0040	0.0010	mg/L		08/20/20 10:25	08/21/20 14:49	1
Cobalt	ND		0.0040	0.00063	mg/L		08/20/20 10:25	08/21/20 14:49	1
Copper	ND		0.010	0.0016	mg/L		08/20/20 10:25	08/21/20 14:49	1
<b>Iron</b>	<b>3.7</b>		0.050	0.019	mg/L		08/20/20 10:25	08/21/20 14:49	1
Lead	ND		0.010	0.0030	mg/L		08/20/20 10:25	08/21/20 14:49	1
<b>Magnesium</b>	<b>40.8</b>		0.20	0.043	mg/L		08/20/20 10:25	08/21/20 14:49	1
<b>Manganese</b>	<b>0.060</b>	<b>B</b>	0.0030	0.00040	mg/L		08/20/20 10:25	08/21/20 14:49	1
Nickel	ND		0.010	0.0013	mg/L		08/20/20 10:25	08/21/20 14:49	1
<b>Potassium</b>	<b>7.0</b>		0.50	0.10	mg/L		08/20/20 10:25	08/21/20 14:49	1
Selenium	ND		0.025	0.0087	mg/L		08/20/20 10:25	08/21/20 14:49	1
Silver	ND		0.0060	0.0017	mg/L		08/20/20 10:25	08/21/20 14:49	1
<b>Sodium</b>	<b>47.8</b>		1.0	0.32	mg/L		08/20/20 10:25	08/21/20 14:49	1
Thallium	ND		0.020	0.010	mg/L		08/20/20 10:25	08/21/20 14:49	1
Vanadium	ND		0.0050	0.0015	mg/L		08/20/20 10:25	08/21/20 14:49	1
<b>Zinc</b>	<b>0.0018</b>	<b>J</b>	0.010	0.0015	mg/L		08/20/20 10:25	08/21/20 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/20/20 12:40	08/20/20 15:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		2.0	0.73	mg/L			08/21/20 00:19	10
<b>Chloride</b>	<b>80.7</b>		5.0	2.8	mg/L			08/21/20 00:19	10
<b>Sulfate</b>	<b>1050</b>		40.0	7.0	mg/L			08/21/20 10:53	20

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-02**

**Lab Sample ID: 480-173915-2**

Date Collected: 08/17/20 12:30

Matrix: Water

Date Received: 08/18/20 10:30

## General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.30		0.020	0.0090	mg/L			08/19/20 10:45	1
Chemical Oxygen Demand	22.8	B	10.0	5.0	mg/L			08/19/20 20:17	1
Total Organic Carbon	1.3		1.0	0.43	mg/L			08/27/20 04:26	1
Alkalinity, Total	206		5.0	0.79	mg/L			08/21/20 20:32	1
Total hardness as CaCO3	1300		10.0	2.6	mg/L			08/19/20 12:15	1
Total Dissolved Solids	1170		20.0	8.0	mg/L			08/19/20 16:39	1

**Client Sample ID: 8-MON-006-001-03**

**Lab Sample ID: 480-173915-3**

Date Collected: 08/17/20 14:00

Matrix: Water

Date Received: 08/18/20 10:30

## 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 12:04	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/20 12:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/20 12:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/20 12:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/20 12:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/20 12:04	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/24/20 12:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/20 12:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/20 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/20 12:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/20 12:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/20 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/20 12:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/20 12:04	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/20 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/20 12:04	1
Acetone	ND		10	3.0	ug/L			08/24/20 12:04	1
Acrylonitrile	ND		5.0	0.83	ug/L			08/24/20 12:04	1
Benzene	ND		1.0	0.41	ug/L			08/24/20 12:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/20 12:04	1
Bromoform	ND		1.0	0.26	ug/L			08/24/20 12:04	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/20 12:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/20 12:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/20 12:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/20 12:04	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/24/20 12:04	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/20 12:04	1
Chloroform	ND		1.0	0.34	ug/L			08/24/20 12:04	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/20 12:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/20 12:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/20 12:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/20 12:04	1
Dibromomethane	ND		1.0	0.41	ug/L			08/24/20 12:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/20 12:04	1
Iodomethane	ND		1.0	0.30	ug/L			08/24/20 12:04	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/24/20 12:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/20 12:04	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-03**

**Lab Sample ID: 480-173915-3**

Date Collected: 08/17/20 14:00

Matrix: Water

Date Received: 08/18/20 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0	0.76	ug/L			08/24/20 12:04	1
Styrene	ND		1.0	0.73	ug/L			08/24/20 12:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/20 12:04	1
Toluene	ND		1.0	0.51	ug/L			08/24/20 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/20 12:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/20 12:04	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/24/20 12:04	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/20 12:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/20 12:04	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/24/20 12:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/20 12:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/24/20 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		08/24/20 12:04	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/24/20 12:04	1
Dibromofluoromethane (Surr)	102		75 - 123		08/24/20 12:04	1
Toluene-d8 (Surr)	100		80 - 120		08/24/20 12:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.63		0.20	0.10	ug/L		08/19/20 14:47	08/21/20 15:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	25		15 - 110	08/19/20 14:47	08/21/20 15:41	1

**Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		08/19/20 09:11	08/22/20 03:21	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/19/20 09:11	08/22/20 03:21	1
Anthracene	ND		0.50	0.39	ug/L		08/19/20 09:11	08/22/20 03:21	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/19/20 09:11	08/22/20 03:21	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/19/20 09:11	08/22/20 03:21	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/19/20 09:11	08/22/20 03:21	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/19/20 09:11	08/22/20 03:21	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/19/20 09:11	08/22/20 03:21	1
Chrysene	ND		0.50	0.32	ug/L		08/19/20 09:11	08/22/20 03:21	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/19/20 09:11	08/22/20 03:21	1
Fluoranthene	ND		0.50	0.36	ug/L		08/19/20 09:11	08/22/20 03:21	1
Fluorene	ND		0.50	0.37	ug/L		08/19/20 09:11	08/22/20 03:21	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/19/20 09:11	08/22/20 03:21	1
Naphthalene	ND		0.50	0.42	ug/L		08/19/20 09:11	08/22/20 03:21	1
Phenanthrene	ND		0.50	0.38	ug/L		08/19/20 09:11	08/22/20 03:21	1
Pyrene	ND		0.50	0.36	ug/L		08/19/20 09:11	08/22/20 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	110		48 - 120	08/19/20 09:11	08/22/20 03:21	1
Nitrobenzene-d5	95		46 - 120	08/19/20 09:11	08/22/20 03:21	1
p-Terphenyl-d14	59		24 - 136	08/19/20 09:11	08/22/20 03:21	1

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-03**

**Lab Sample ID: 480-173915-3**

Date Collected: 08/17/20 14:00

Matrix: Water

Date Received: 08/18/20 10:30

**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		08/20/20 14:30	08/21/20 21:17	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	5.0	ng/L		08/20/20 14:30	08/21/20 21:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.4	ng/L		08/20/20 14:30	08/21/20 21:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.6	ng/L		08/20/20 14:30	08/21/20 21:17	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>1.6</b>	<b>J B</b>	1.8	0.45	ng/L		08/20/20 14:30	08/21/20 21:17	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>360</b>		1.8	0.92	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.83	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.71	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.54	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.87	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.83	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.73	ng/L		08/20/20 14:30	08/21/20 21:17	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>1.6</b>	<b>J</b>	1.8	0.70	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.2	9.2	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.56	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.74	ng/L		08/20/20 14:30	08/21/20 21:17	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>1.6</b>	<b>J</b>	1.8	0.58	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.84	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.55	ng/L		08/20/20 14:30	08/21/20 21:17	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.72	ng/L		08/20/20 14:30	08/21/20 21:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	90		50 - 150	08/20/20 14:30	08/21/20 21:17	1
13C2 PFDoA	86		50 - 150	08/20/20 14:30	08/21/20 21:17	1
13C2 PFHxA	96		50 - 150	08/20/20 14:30	08/21/20 21:17	1
13C2 PFUnA	88		50 - 150	08/20/20 14:30	08/21/20 21:17	1
13C2 PFTeDA	82		50 - 150	08/20/20 14:30	08/21/20 21:17	1
13C4 PFBA	76		25 - 150	08/20/20 14:30	08/21/20 21:17	1
13C4 PFOA	87		50 - 150	08/20/20 14:30	08/21/20 21:17	1
13C4 PFOS	82		50 - 150	08/20/20 14:30	08/21/20 21:17	1
13C4 PFHpA	94		50 - 150	08/20/20 14:30	08/21/20 21:17	1
13C5 PFNA	94		50 - 150	08/20/20 14:30	08/21/20 21:17	1
13C5 PFPeA	87		25 - 150	08/20/20 14:30	08/21/20 21:17	1
13C8 FOSA	72		25 - 150	08/20/20 14:30	08/21/20 21:17	1
18O2 PFHxS	92		50 - 150	08/20/20 14:30	08/21/20 21:17	1
d3-NMeFOSAA	75		50 - 150	08/20/20 14:30	08/21/20 21:17	1
d5-NEtFOSAA	80		50 - 150	08/20/20 14:30	08/21/20 21:17	1
M2-6:2 FTS	86		25 - 150	08/20/20 14:30	08/21/20 21:17	1
M2-8:2 FTS	92		25 - 150	08/20/20 14:30	08/21/20 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>0.061</b>	<b>J</b>	0.20	0.060	mg/L		08/20/20 10:25	08/21/20 14:53	1
Antimony	ND		0.020	0.0068	mg/L		08/20/20 10:25	08/21/20 14:53	1
Arsenic	ND		0.015	0.0056	mg/L		08/20/20 10:25	08/21/20 14:53	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-03**

**Lab Sample ID: 480-173915-3**

Date Collected: 08/17/20 14:00

Matrix: Water

Date Received: 08/18/20 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.039</b>	<b>^</b>	0.0020	0.00070	mg/L		08/20/20 10:25	08/21/20 14:53	1
Beryllium	ND		0.0020	0.00030	mg/L		08/20/20 10:25	08/21/20 14:53	1
<b>Boron</b>	<b>0.31</b>		0.020	0.0040	mg/L		08/20/20 10:25	08/21/20 14:53	1
Cadmium	ND	<b>^</b>	0.0020	0.00050	mg/L		08/20/20 10:25	08/21/20 14:53	1
<b>Calcium</b>	<b>224</b>		0.50	0.10	mg/L		08/20/20 10:25	08/21/20 14:53	1
Chromium	ND		0.0040	0.0010	mg/L		08/20/20 10:25	08/21/20 14:53	1
Cobalt	ND		0.0040	0.00063	mg/L		08/20/20 10:25	08/21/20 14:53	1
Copper	ND		0.010	0.0016	mg/L		08/20/20 10:25	08/21/20 14:53	1
<b>Iron</b>	<b>2.9</b>		0.050	0.019	mg/L		08/20/20 10:25	08/21/20 14:53	1
Lead	ND		0.010	0.0030	mg/L		08/20/20 10:25	08/21/20 14:53	1
<b>Magnesium</b>	<b>21.8</b>		0.20	0.043	mg/L		08/20/20 10:25	08/21/20 14:53	1
<b>Manganese</b>	<b>0.026</b>	<b>B</b>	0.0030	0.00040	mg/L		08/20/20 10:25	08/21/20 14:53	1
Nickel	ND		0.010	0.0013	mg/L		08/20/20 10:25	08/21/20 14:53	1
<b>Potassium</b>	<b>3.8</b>		0.50	0.10	mg/L		08/20/20 10:25	08/21/20 14:53	1
Selenium	ND		0.025	0.0087	mg/L		08/20/20 10:25	08/21/20 14:53	1
Silver	ND		0.0060	0.0017	mg/L		08/20/20 10:25	08/21/20 14:53	1
<b>Sodium</b>	<b>75.4</b>		1.0	0.32	mg/L		08/20/20 10:25	08/21/20 14:53	1
Thallium	ND		0.020	0.010	mg/L		08/20/20 10:25	08/21/20 14:53	1
Vanadium	ND		0.0050	0.0015	mg/L		08/20/20 10:25	08/21/20 14:53	1
Zinc	ND		0.010	0.0015	mg/L		08/20/20 10:25	08/21/20 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/20/20 12:40	08/20/20 15:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			08/21/20 00:33	5
<b>Chloride</b>	<b>133</b>		2.5	1.4	mg/L			08/21/20 00:33	5
<b>Sulfate</b>	<b>239</b>		10.0	1.7	mg/L			08/21/20 00:33	5
<b>Ammonia</b>	<b>0.16</b>		0.020	0.0090	mg/L			08/19/20 10:46	1
<b>Chemical Oxygen Demand</b>	<b>31.8</b>	<b>B</b>	10.0	5.0	mg/L			08/19/20 20:17	1
<b>Total Organic Carbon</b>	<b>3.4</b>		1.0	0.43	mg/L			08/27/20 04:53	1
<b>Alkalinity, Total</b>	<b>386</b>		5.0	0.79	mg/L			08/21/20 20:39	1
<b>Total hardness as CaCO3</b>	<b>630</b>		10.0	2.6	mg/L			08/19/20 12:15	1
<b>Total Dissolved Solids</b>	<b>2150</b>		20.0	8.0	mg/L			08/19/20 16:39	1

**Client Sample ID: 8-MON-006-001-04**

**Lab Sample ID: 480-173915-4**

Date Collected: 08/17/20 14:30

Matrix: Water

Date Received: 08/18/20 10:30

**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		08/20/20 14:30	08/21/20 21:25	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.8	ng/L		08/20/20 14:30	08/21/20 21:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	ND		17	1.3	ng/L		08/20/20 14:30	08/21/20 21:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		08/20/20 14:30	08/21/20 21:25	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-04**

**Lab Sample ID: 480-173915-4**

Date Collected: 08/17/20 14:30

Matrix: Water

Date Received: 08/18/20 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.66</b>	<b>J B</b>	1.7	0.42	ng/L		08/20/20 14:30	08/21/20 21:25	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>1.2</b>	<b>J</b>	1.7	0.87	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.78	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.67	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.51	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.82	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.79	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.69	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.66	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.7	8.7	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.53	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.70	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.55	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.80	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.52	ng/L		08/20/20 14:30	08/21/20 21:25	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.68	ng/L		08/20/20 14:30	08/21/20 21:25	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C2 PFDA	98		50 - 150				08/20/20 14:30	08/21/20 21:25	1
13C2 PFDoA	90		50 - 150				08/20/20 14:30	08/21/20 21:25	1
13C2 PFHxA	107		50 - 150				08/20/20 14:30	08/21/20 21:25	1
13C2 PFUnA	99		50 - 150				08/20/20 14:30	08/21/20 21:25	1
13C2 PFTeDA	81		50 - 150				08/20/20 14:30	08/21/20 21:25	1
13C4 PFBA	101		25 - 150				08/20/20 14:30	08/21/20 21:25	1
13C4 PFOA	95		50 - 150				08/20/20 14:30	08/21/20 21:25	1
13C4 PFOS	95		50 - 150				08/20/20 14:30	08/21/20 21:25	1
13C4 PFHpA	102		50 - 150				08/20/20 14:30	08/21/20 21:25	1
13C5 PFNA	103		50 - 150				08/20/20 14:30	08/21/20 21:25	1
13C5 PFPeA	99		25 - 150				08/20/20 14:30	08/21/20 21:25	1
13C8 FOSA	64		25 - 150				08/20/20 14:30	08/21/20 21:25	1
18O2 PFHxS	98		50 - 150				08/20/20 14:30	08/21/20 21:25	1
d3-NMeFOSAA	77		50 - 150				08/20/20 14:30	08/21/20 21:25	1
d5-NEtFOSAA	78		50 - 150				08/20/20 14:30	08/21/20 21:25	1
M2-6:2 FTS	86		25 - 150				08/20/20 14:30	08/21/20 21:25	1
M2-8:2 FTS	98		25 - 150				08/20/20 14:30	08/21/20 21:25	1

**Client Sample ID: 8-MON-006-001-05**

**Lab Sample ID: 480-173915-5**

Date Collected: 08/17/20 14:35

Matrix: Water

Date Received: 08/18/20 10:30

**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	2.8	ng/L		08/20/20 14:30	08/21/20 21:33	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		19	5.2	ng/L		08/20/20 14:30	08/21/20 21:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19	1.4	ng/L		08/20/20 14:30	08/21/20 21:33	1

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-05**

**Lab Sample ID: 480-173915-5**

Date Collected: 08/17/20 14:35

Matrix: Water

Date Received: 08/18/20 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19	1.6	ng/L		08/20/20 14:30	08/21/20 21:33	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.64</b>	<b>J B</b>	1.9	0.47	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorobutanoic acid (PFBA)	ND		1.9	0.95	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.86	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.73	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.56	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.90	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.87	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.76	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.72	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.26	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.5	9.5	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.58	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.77	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.60	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.88	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.57	ng/L		08/20/20 14:30	08/21/20 21:33	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.74	ng/L		08/20/20 14:30	08/21/20 21:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	89		50 - 150	08/20/20 14:30	08/21/20 21:33	1
13C2 PFDoA	85		50 - 150	08/20/20 14:30	08/21/20 21:33	1
13C2 PFHxA	95		50 - 150	08/20/20 14:30	08/21/20 21:33	1
13C2 PFUnA	83		50 - 150	08/20/20 14:30	08/21/20 21:33	1
13C2 PFTeDA	85		50 - 150	08/20/20 14:30	08/21/20 21:33	1
13C4 PFBA	102		25 - 150	08/20/20 14:30	08/21/20 21:33	1
13C4 PFOA	94		50 - 150	08/20/20 14:30	08/21/20 21:33	1
13C4 PFOS	90		50 - 150	08/20/20 14:30	08/21/20 21:33	1
13C4 PFHpA	93		50 - 150	08/20/20 14:30	08/21/20 21:33	1
13C5 PFNA	90		50 - 150	08/20/20 14:30	08/21/20 21:33	1
13C5 PFPeA	91		25 - 150	08/20/20 14:30	08/21/20 21:33	1
13C8 FOSA	52		25 - 150	08/20/20 14:30	08/21/20 21:33	1
18O2 PFHxS	87		50 - 150	08/20/20 14:30	08/21/20 21:33	1
d3-NMeFOSAA	75		50 - 150	08/20/20 14:30	08/21/20 21:33	1
d5-NEtFOSAA	81		50 - 150	08/20/20 14:30	08/21/20 21:33	1
M2-6:2 FTS	88		25 - 150	08/20/20 14:30	08/21/20 21:33	1
M2-8:2 FTS	89		25 - 150	08/20/20 14:30	08/21/20 21:33	1

**Client Sample ID: 8-MON-006-001-06**

**Lab Sample ID: 480-173915-6**

Date Collected: 08/17/20 00:00

Matrix: Water

Date Received: 08/18/20 10:30

**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 12:27	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/20 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/20 12:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/20 12:27	1

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-06**

**Lab Sample ID: 480-173915-6**

Date Collected: 08/17/20 00:00

Matrix: Water

Date Received: 08/18/20 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/20 12:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/20 12:27	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/24/20 12:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/20 12:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/20 12:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/20 12:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/20 12:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/20 12:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/20 12:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/20 12:27	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/20 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/20 12:27	1
Acetone	ND		10	3.0	ug/L			08/24/20 12:27	1
Acrylonitrile	ND		5.0	0.83	ug/L			08/24/20 12:27	1
Benzene	ND		1.0	0.41	ug/L			08/24/20 12:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/20 12:27	1
Bromoform	ND		1.0	0.26	ug/L			08/24/20 12:27	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/20 12:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/20 12:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/20 12:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/20 12:27	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/24/20 12:27	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/20 12:27	1
Chloroform	ND		1.0	0.34	ug/L			08/24/20 12:27	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/20 12:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/20 12:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/20 12:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/20 12:27	1
Dibromomethane	ND		1.0	0.41	ug/L			08/24/20 12:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/20 12:27	1
Iodomethane	ND		1.0	0.30	ug/L			08/24/20 12:27	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/24/20 12:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/20 12:27	1
o-Xylene	ND		1.0	0.76	ug/L			08/24/20 12:27	1
Styrene	ND		1.0	0.73	ug/L			08/24/20 12:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/20 12:27	1
Toluene	ND		1.0	0.51	ug/L			08/24/20 12:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/20 12:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/20 12:27	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/24/20 12:27	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/20 12:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/20 12:27	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/24/20 12:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/20 12:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/24/20 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		08/24/20 12:27	1
4-Bromofluorobenzene (Surr)	101		73 - 120		08/24/20 12:27	1
Dibromofluoromethane (Surr)	102		75 - 123		08/24/20 12:27	1

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-06**

**Lab Sample ID: 480-173915-6**

Date Collected: 08/17/20 00:00

Matrix: Water

Date Received: 08/18/20 10:30

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Toluene-d8 (Surr)	101		80 - 120		08/24/20 12:27	1

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

# Surrogate Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-173915-1	8-MON-006-001-01	101	100	100	99
480-173915-2	8-MON-006-001-02	103	101	103	99
480-173915-3	8-MON-006-001-03	104	102	102	100
480-173915-6	8-MON-006-001-06	104	101	102	101
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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (48-120)	NBZ (46-120)	TPHd14 (24-136)
480-173915-1	8-MON-006-001-01	105	95	77
480-173915-2	8-MON-006-001-02	106	93	71
480-173915-3	8-MON-006-001-03	110	95	59
LCS 480-545767/2-A	Lab Control Sample	104	103	97
LCSD 480-545767/3-A	Lab Control Sample Dup	102	102	97
MB 480-545767/1-A	Method Blank	103	94	104

### Surrogate Legend

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

# Isotope Dilution Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
480-173915-1	8-MON-006-001-01	23
480-173915-2	8-MON-006-001-02	22
480-173915-3	8-MON-006-001-03	25
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)

Lab Sample ID	Client Sample ID	PFDA (50-150)	PFDoA (50-150)	PFHxA (50-150)	PFUnA (50-150)	PFTDA (50-150)	PFBA (25-150)	PFOA (50-150)	PFOS (50-150)
480-173915-1	8-MON-006-001-01	99	93	93	88	86		87	88
480-173915-1	8-MON-006-001-01						84		
480-173915-2	8-MON-006-001-02	89	87	105	82	81	94	93	87
480-173915-3	8-MON-006-001-03	90	86	96	88	82	76	87	82
480-173915-4	8-MON-006-001-04	98	90	107	99	81	101	95	95
480-173915-5	8-MON-006-001-05	89	85	95	83	85	102	94	90
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)

Lab Sample ID	Client Sample ID	C4PFHA (50-150)	PFNA (50-150)	PFPeA (25-150)	PFOSA (25-150)	PFHxS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (25-150)
480-173915-1	8-MON-006-001-01	95	98	90	76	91	82	82	91
480-173915-1	8-MON-006-001-01								
480-173915-2	8-MON-006-001-02	95	97	100	75	95	78	78	90
480-173915-3	8-MON-006-001-03	94	94	87	72	92	75	80	86
480-173915-4	8-MON-006-001-04	102	103	99	64	98	77	78	86
480-173915-5	8-MON-006-001-05	93	90	91	52	87	75	81	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)

Lab Sample ID	Client Sample ID	M282FTS (25-150)
480-173915-1	8-MON-006-001-01	91
480-173915-1	8-MON-006-001-01	
480-173915-2	8-MON-006-001-02	95
480-173915-3	8-MON-006-001-03	92
480-173915-4	8-MON-006-001-04	98
480-173915-5	8-MON-006-001-05	89
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

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# Isotope Dilution Summary

Client: Parsons Corporation

Job ID: 480-173915-1

Project/Site: 8-MON-006 Little League Sanitary LF

## 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



# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## 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	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## 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-Dichloroethane	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-Dichloroethane	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

Eurofins TestAmerica, Buffalo



# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## 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

## 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

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# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

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

(Continued)

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

## Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 480-545767/1-A

Matrix: Water

Analysis Batch: 546264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 545767

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		08/19/20 09:11	08/21/20 17:28	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/19/20 09:11	08/21/20 17:28	1
Anthracene	ND		0.50	0.39	ug/L		08/19/20 09:11	08/21/20 17:28	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/19/20 09:11	08/21/20 17:28	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/19/20 09:11	08/21/20 17:28	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/19/20 09:11	08/21/20 17:28	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/19/20 09:11	08/21/20 17:28	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/19/20 09:11	08/21/20 17:28	1
Chrysene	ND		0.50	0.32	ug/L		08/19/20 09:11	08/21/20 17:28	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/19/20 09:11	08/21/20 17:28	1
Fluoranthene	ND		0.50	0.36	ug/L		08/19/20 09:11	08/21/20 17:28	1
Fluorene	ND		0.50	0.37	ug/L		08/19/20 09:11	08/21/20 17:28	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/19/20 09:11	08/21/20 17:28	1
Naphthalene	ND		0.50	0.42	ug/L		08/19/20 09:11	08/21/20 17:28	1
Phenanthrene	ND		0.50	0.38	ug/L		08/19/20 09:11	08/21/20 17:28	1
Pyrene	ND		0.50	0.36	ug/L		08/19/20 09:11	08/21/20 17:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		48 - 120	08/19/20 09:11	08/21/20 17:28	1
Nitrobenzene-d5	94		46 - 120	08/19/20 09:11	08/21/20 17:28	1
p-Terphenyl-d14	104		24 - 136	08/19/20 09:11	08/21/20 17:28	1

Lab Sample ID: LCS 480-545767/2-A

Matrix: Water

Analysis Batch: 546264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 545767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	33.1		ug/L		104	60 - 120
Acenaphthylene	32.0	34.3		ug/L		107	63 - 120
Anthracene	32.0	36.3		ug/L		113	69 - 131
Benzo[a]anthracene	32.0	34.1		ug/L		106	62 - 142
Benzo[a]pyrene	32.0	33.1		ug/L		104	46 - 156
Benzo[b]fluoranthene	32.0	33.2		ug/L		104	50 - 149
Benzo[g,h,i]perylene	32.0	33.4		ug/L		104	34 - 189
Benzo[k]fluoranthene	32.0	31.1		ug/L		97	47 - 147
Chrysene	32.0	33.4		ug/L		104	69 - 140
Dibenz(a,h)anthracene	32.0	32.9		ug/L		103	35 - 176
Fluoranthene	32.0	37.6		ug/L		118	67 - 133
Fluorene	32.0	35.4		ug/L		110	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	33.1		ug/L		103	57 - 161
Naphthalene	32.0	31.5		ug/L		99	48 - 120
Phenanthrene	32.0	35.8		ug/L		112	67 - 130

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: LCS 480-545767/2-A

Matrix: Water

Analysis Batch: 546264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 545767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	32.0	36.6		ug/L		114	58 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	104		48 - 120
Nitrobenzene-d5	103		46 - 120
p-Terphenyl-d14	97		24 - 136

Lab Sample ID: LCSD 480-545767/3-A

Matrix: Water

Analysis Batch: 546264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 545767

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	32.0	32.9		ug/L		103	60 - 120	1	24
Acenaphthylene	32.0	33.5		ug/L		105	63 - 120	2	18
Anthracene	32.0	35.5		ug/L		111	69 - 131	2	15
Benzo[a]anthracene	32.0	33.6		ug/L		105	62 - 142	2	15
Benzo[a]pyrene	32.0	32.6		ug/L		102	46 - 156	2	15
Benzo[b]fluoranthene	32.0	33.2		ug/L		104	50 - 149	0	15
Benzo[g,h,i]perylene	32.0	32.9		ug/L		103	34 - 189	2	15
Benzo[k]fluoranthene	32.0	31.4		ug/L		98	47 - 147	1	22
Chrysene	32.0	33.1		ug/L		103	69 - 140	1	15
Dibenz(a,h)anthracene	32.0	32.8		ug/L		103	35 - 176	0	15
Fluoranthene	32.0	36.8		ug/L		115	67 - 133	2	15
Fluorene	32.0	34.4		ug/L		107	66 - 129	3	15
Indeno[1,2,3-cd]pyrene	32.0	32.7		ug/L		102	57 - 161	1	15
Naphthalene	32.0	30.8		ug/L		96	48 - 120	2	29
Phenanthrene	32.0	35.1		ug/L		110	67 - 130	2	15
Pyrene	32.0	35.9		ug/L		112	58 - 136	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	102		48 - 120
Nitrobenzene-d5	102		46 - 120
p-Terphenyl-d14	97		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

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## 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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
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
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-perfluorooctanesulfonic acid (6:2)	37.9	42.1		ng/L		111	50 - 150
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	40.0	38.1		ng/L		95	70 - 130

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# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

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

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
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

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
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



# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## 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
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-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	40.0	42.1		ng/L		105	70 - 130	10	20
N-methylperfluorooctanesulfonamide doacetic 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
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		Limits
	%Recovery	Qualifier	
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

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# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## 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**

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	89		25 - 150
M2-8:2 FTS	94		25 - 150

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-545970/1-A**  
**Matrix: Water**  
**Analysis Batch: 546476**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 545970**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		08/20/20 10:25	08/21/20 13:57	1
Antimony	ND		0.020	0.0068	mg/L		08/20/20 10:25	08/21/20 13:57	1
Arsenic	ND		0.015	0.0056	mg/L		08/20/20 10:25	08/21/20 13:57	1
Barium	ND	^	0.0020	0.00070	mg/L		08/20/20 10:25	08/21/20 13:57	1
Beryllium	ND		0.0020	0.00030	mg/L		08/20/20 10:25	08/21/20 13:57	1
Boron	ND		0.020	0.0040	mg/L		08/20/20 10:25	08/21/20 13:57	1
Cadmium	ND		0.0020	0.00050	mg/L		08/20/20 10:25	08/21/20 13:57	1
Calcium	ND		0.50	0.10	mg/L		08/20/20 10:25	08/21/20 13:57	1
Chromium	ND		0.0040	0.0010	mg/L		08/20/20 10:25	08/21/20 13:57	1
Cobalt	ND		0.0040	0.00063	mg/L		08/20/20 10:25	08/21/20 13:57	1
Copper	ND		0.010	0.0016	mg/L		08/20/20 10:25	08/21/20 13:57	1
Iron	ND		0.050	0.019	mg/L		08/20/20 10:25	08/21/20 13:57	1
Lead	ND		0.010	0.0030	mg/L		08/20/20 10:25	08/21/20 13:57	1
Magnesium	ND		0.20	0.043	mg/L		08/20/20 10:25	08/21/20 13:57	1
Manganese	0.000400	J	0.0030	0.00040	mg/L		08/20/20 10:25	08/21/20 13:57	1
Nickel	ND		0.010	0.0013	mg/L		08/20/20 10:25	08/21/20 13:57	1
Potassium	ND		0.50	0.10	mg/L		08/20/20 10:25	08/21/20 13:57	1
Selenium	ND		0.025	0.0087	mg/L		08/20/20 10:25	08/21/20 13:57	1
Silver	ND		0.0060	0.0017	mg/L		08/20/20 10:25	08/21/20 13:57	1
Sodium	ND		1.0	0.32	mg/L		08/20/20 10:25	08/21/20 13:57	1
Thallium	ND		0.020	0.010	mg/L		08/20/20 10:25	08/21/20 13:57	1
Vanadium	ND		0.0050	0.0015	mg/L		08/20/20 10:25	08/21/20 13:57	1
Zinc	ND		0.010	0.0015	mg/L		08/20/20 10:25	08/21/20 13:57	1

**Lab Sample ID: LCS 480-545970/2-A**  
**Matrix: Water**  
**Analysis Batch: 546476**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 545970**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aluminum	10.0	10.23		mg/L		102	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	0.224	^	mg/L		112	80 - 120
Beryllium	0.200	0.206		mg/L		103	80 - 120
Boron	0.200	0.204		mg/L		102	80 - 120
Cadmium	0.200	0.202		mg/L		101	80 - 120
Calcium	10.0	10.15		mg/L		102	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.200	0.195		mg/L		98	80 - 120

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# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

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

Lab Sample ID: LCS 480-545970/2-A

Matrix: Water

Analysis Batch: 546476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 545970

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Copper	0.200	0.215		mg/L		108	80 - 120
Iron	10.0	9.97		mg/L		100	80 - 120
Lead	0.200	0.201		mg/L		100	80 - 120
Magnesium	10.0	9.98		mg/L		100	80 - 120
Manganese	0.200	0.203		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	0.196		mg/L		98	80 - 120
Silver	0.0500	0.0489		mg/L		98	80 - 120
Sodium	10.0	10.03		mg/L		100	80 - 120
Thallium	0.200	0.202		mg/L		101	80 - 120
Vanadium	0.200	0.208		mg/L		104	80 - 120
Zinc	0.200	0.211		mg/L		105	80 - 120

Lab Sample ID: LCSD 480-545970/25-A

Matrix: Water

Analysis Batch: 546476

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 545970

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Aluminum	10.0	9.79		mg/L		98	80 - 120	4	20
Antimony	0.200	0.209		mg/L		104	80 - 120	1	20
Arsenic	0.200	0.204		mg/L		102	80 - 120	0	20
Barium	0.200	0.217	^	mg/L		109	80 - 120	3	20
Beryllium	0.200	0.204		mg/L		102	80 - 120	1	20
Boron	0.200	0.200		mg/L		100	80 - 120	2	20
Cadmium	0.200	0.199	^	mg/L		100	80 - 120	1	20
Calcium	10.0	10.01		mg/L		100	80 - 120	1	20
Chromium	0.200	0.205		mg/L		102	80 - 120	3	20
Cobalt	0.200	0.193		mg/L		96	80 - 120	1	20
Copper	0.200	0.206		mg/L		103	80 - 120	5	20
Iron	10.0	9.81		mg/L		98	80 - 120	2	20
Lead	0.200	0.199		mg/L		99	80 - 120	1	20
Magnesium	10.0	9.88		mg/L		99	80 - 120	1	20
Manganese	0.200	0.201		mg/L		101	80 - 120	1	20
Nickel	0.200	0.195		mg/L		97	80 - 120	1	20
Potassium	10.0	9.45		mg/L		94	80 - 120	2	20
Selenium	0.200	0.196		mg/L		98	80 - 120	0	20
Silver	0.0500	0.0471		mg/L		94	80 - 120	4	20
Sodium	10.0	9.70		mg/L		97	80 - 120	3	20
Thallium	0.200	0.200		mg/L		100	80 - 120	1	20
Vanadium	0.200	0.204		mg/L		102	80 - 120	2	20
Zinc	0.200	0.205		mg/L		102	80 - 120	3	20

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-546068/1-A  
 Matrix: Water  
 Analysis Batch: 546148

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 546068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/20/20 12:40	08/20/20 15:30	1

Lab Sample ID: LCS 480-546068/2-A  
 Matrix: Water  
 Analysis Batch: 546148

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 546068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00688		mg/L		103	80 - 120

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-546124/28  
 Matrix: Water  
 Analysis Batch: 546124

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			08/20/20 23:50	1
Chloride	ND		0.50	0.28	mg/L			08/20/20 23:50	1
Sulfate	ND		2.0	0.35	mg/L			08/20/20 23:50	1

Lab Sample ID: LCS 480-546124/27  
 Matrix: Water  
 Analysis Batch: 546124

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	4.90		mg/L		98	90 - 110
Chloride	50.0	48.93		mg/L		98	90 - 110
Sulfate	50.0	47.95		mg/L		96	90 - 110

Lab Sample ID: MB 480-546234/4  
 Matrix: Water  
 Analysis Batch: 546234

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			08/21/20 10:38	1
Chloride	ND		0.50	0.28	mg/L			08/21/20 10:38	1
Sulfate	ND		2.0	0.35	mg/L			08/21/20 10:38	1

Lab Sample ID: LCS 480-546234/3  
 Matrix: Water  
 Analysis Batch: 546234

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	4.94		mg/L		99	90 - 110
Chloride	50.0	48.27		mg/L		97	90 - 110
Sulfate	50.0	47.42		mg/L		95	90 - 110

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-545830/27  
 Matrix: Water  
 Analysis Batch: 545830

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			08/19/20 10:41	1

Lab Sample ID: LCS 480-545830/28  
 Matrix: Water  
 Analysis Batch: 545830

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.988		mg/L		99	90 - 110

Lab Sample ID: 480-173915-1 MS  
 Matrix: Water  
 Analysis Batch: 545830

Client Sample ID: 8-MON-006-001-01  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.70		0.200	0.896		mg/L		99	90 - 110

Lab Sample ID: 480-173915-1 DU  
 Matrix: Water  
 Analysis Batch: 545830

Client Sample ID: 8-MON-006-001-01  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	0.70			0.690		mg/L		1	20

## Method: 410.4 - COD

Lab Sample ID: MB 480-546067/28  
 Matrix: Water  
 Analysis Batch: 546067

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	7.92	J	10.0	5.0	mg/L			08/19/20 20:17	1

Lab Sample ID: LCS 480-546067/29  
 Matrix: Water  
 Analysis Batch: 546067

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	26.48		mg/L		106	90 - 110

Lab Sample ID: 480-173915-1 MS  
 Matrix: Water  
 Analysis Batch: 546067

Client Sample ID: 8-MON-006-001-01  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	14.2	B	50.0	60.12		mg/L		92	75 - 125



# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## Method: 410.4 - COD (Continued)

Lab Sample ID: 480-173915-1 MSD  
 Matrix: Water  
 Analysis Batch: 546067

Client Sample ID: 8-MON-006-001-01  
 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	14.2	B	50.0	61.62		mg/L		95	75 - 125	2	20

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

Lab Sample ID: MB 480-547151/4  
 Matrix: Water  
 Analysis Batch: 547151

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			08/26/20 20:31	1

Lab Sample ID: LCS 480-547151/5  
 Matrix: Water  
 Analysis Batch: 547151

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	58.72		mg/L		98	90 - 110

## Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-546405/28  
 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 12:50	1

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: LCS 480-546405/29  
 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	93.68		mg/L		94	90 - 110

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

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## Method: SM 2340C - Hardness, Total (mg/l as CaCO3)

Lab Sample ID: MB 480-545887/3  
 Matrix: Water  
 Analysis Batch: 545887

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			08/19/20 12:15	1

Lab Sample ID: LCS 480-545887/4  
 Matrix: Water  
 Analysis Batch: 545887

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	240.0		mg/L		99	90 - 110

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

Lab Sample ID: MB 480-545903/1  
 Matrix: Water  
 Analysis Batch: 545903

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 16:39	1

Lab Sample ID: LCS 480-545903/2  
 Matrix: Water  
 Analysis Batch: 545903

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	475.0		mg/L		95	85 - 115

# QC Association Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## GC/MS VOA

### Analysis Batch: 546414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	8260C	
480-173915-2	8-MON-006-001-02	Total/NA	Water	8260C	
480-173915-3	8-MON-006-001-03	Total/NA	Water	8260C	
480-173915-6	8-MON-006-001-06	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	

## GC/MS Semi VOA

### Prep Batch: 545767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	3510C	
480-173915-2	8-MON-006-001-02	Total/NA	Water	3510C	
480-173915-3	8-MON-006-001-03	Total/NA	Water	3510C	
MB 480-545767/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-545767/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-545767/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Prep Batch: 545870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	3510C	
480-173915-2	8-MON-006-001-02	Total/NA	Water	3510C	
480-173915-3	8-MON-006-001-03	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: 546264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-545767/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	545767
LCS 480-545767/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	545767
LCSD 480-545767/3-A	Lab Control Sample Dup	Total/NA	Water	8270D_LL_PAH	545767

### Analysis Batch: 546268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	8270D_LL_PAH	545767
480-173915-2	8-MON-006-001-02	Total/NA	Water	8270D_LL_PAH	545767
480-173915-3	8-MON-006-001-03	Total/NA	Water	8270D_LL_PAH	545767

### Analysis Batch: 546301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	8270D SIM ID	545870
480-173915-2	8-MON-006-001-02	Total/NA	Water	8270D SIM ID	545870
480-173915-3	8-MON-006-001-03	Total/NA	Water	8270D SIM ID	545870
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

# QC Association Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## LCMS

### Prep Batch: 158112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	3535	
480-173915-2	8-MON-006-001-02	Total/NA	Water	3535	
480-173915-3	8-MON-006-001-03	Total/NA	Water	3535	
480-173915-4	8-MON-006-001-04	Total/NA	Water	3535	
480-173915-5	8-MON-006-001-05	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
480-173915-1	8-MON-006-001-01	Total/NA	Water	537 (modified)	158112
480-173915-2	8-MON-006-001-02	Total/NA	Water	537 (modified)	158112
480-173915-3	8-MON-006-001-03	Total/NA	Water	537 (modified)	158112
480-173915-4	8-MON-006-001-04	Total/NA	Water	537 (modified)	158112
480-173915-5	8-MON-006-001-05	Total/NA	Water	537 (modified)	158112
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
480-173915-1	8-MON-006-001-01	Total/NA	Water	537 (modified)	158112

## Metals

### Prep Batch: 545970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	3005A	
480-173915-2	8-MON-006-001-02	Total/NA	Water	3005A	
480-173915-3	8-MON-006-001-03	Total/NA	Water	3005A	
MB 480-545970/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-545970/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-545970/25-A	Lab Control Sample Dup	Total/NA	Water	3005A	

### Prep Batch: 546068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	7470A	
480-173915-2	8-MON-006-001-02	Total/NA	Water	7470A	
480-173915-3	8-MON-006-001-03	Total/NA	Water	7470A	
MB 480-546068/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-546068/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 546148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	7470A	546068
480-173915-2	8-MON-006-001-02	Total/NA	Water	7470A	546068
480-173915-3	8-MON-006-001-03	Total/NA	Water	7470A	546068
MB 480-546068/1-A	Method Blank	Total/NA	Water	7470A	546068
LCS 480-546068/2-A	Lab Control Sample	Total/NA	Water	7470A	546068

# QC Association Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## Metals

### Analysis Batch: 546476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	6010C	545970
480-173915-2	8-MON-006-001-02	Total/NA	Water	6010C	545970
480-173915-3	8-MON-006-001-03	Total/NA	Water	6010C	545970
MB 480-545970/1-A	Method Blank	Total/NA	Water	6010C	545970
LCS 480-545970/2-A	Lab Control Sample	Total/NA	Water	6010C	545970
LCSD 480-545970/25-A	Lab Control Sample Dup	Total/NA	Water	6010C	545970

## General Chemistry

### Analysis Batch: 545830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	350.1	
480-173915-2	8-MON-006-001-02	Total/NA	Water	350.1	
480-173915-3	8-MON-006-001-03	Total/NA	Water	350.1	
MB 480-545830/27	Method Blank	Total/NA	Water	350.1	
LCS 480-545830/28	Lab Control Sample	Total/NA	Water	350.1	
480-173915-1 MS	8-MON-006-001-01	Total/NA	Water	350.1	
480-173915-1 DU	8-MON-006-001-01	Total/NA	Water	350.1	

### Analysis Batch: 545887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	SM 2340C	
480-173915-2	8-MON-006-001-02	Total/NA	Water	SM 2340C	
480-173915-3	8-MON-006-001-03	Total/NA	Water	SM 2340C	
MB 480-545887/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-545887/4	Lab Control Sample	Total/NA	Water	SM 2340C	

### Analysis Batch: 545903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	SM 2540C	
480-173915-2	8-MON-006-001-02	Total/NA	Water	SM 2540C	
480-173915-3	8-MON-006-001-03	Total/NA	Water	SM 2540C	
MB 480-545903/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-545903/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 546067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	410.4	
480-173915-2	8-MON-006-001-02	Total/NA	Water	410.4	
480-173915-3	8-MON-006-001-03	Total/NA	Water	410.4	
MB 480-546067/28	Method Blank	Total/NA	Water	410.4	
LCS 480-546067/29	Lab Control Sample	Total/NA	Water	410.4	
480-173915-1 MS	8-MON-006-001-01	Total/NA	Water	410.4	
480-173915-1 MSD	8-MON-006-001-01	Total/NA	Water	410.4	

### Analysis Batch: 546124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	300.0	
480-173915-2	8-MON-006-001-02	Total/NA	Water	300.0	
480-173915-3	8-MON-006-001-03	Total/NA	Water	300.0	
MB 480-546124/28	Method Blank	Total/NA	Water	300.0	

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# QC Association Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## General Chemistry (Continued)

### Analysis Batch: 546124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-546124/27	Lab Control Sample	Total/NA	Water	300.0	

### Analysis Batch: 546234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-2	8-MON-006-001-02	Total/NA	Water	300.0	
MB 480-546234/4	Method Blank	Total/NA	Water	300.0	
LCS 480-546234/3	Lab Control Sample	Total/NA	Water	300.0	

### Analysis Batch: 546405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	SM 2320B	
480-173915-2	8-MON-006-001-02	Total/NA	Water	SM 2320B	
480-173915-3	8-MON-006-001-03	Total/NA	Water	SM 2320B	
MB 480-546405/28	Method Blank	Total/NA	Water	SM 2320B	
MB 480-546405/76	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-546405/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-546405/77	Lab Control Sample	Total/NA	Water	SM 2320B	

### Analysis Batch: 547151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173915-1	8-MON-006-001-01	Total/NA	Water	9060A	
480-173915-2	8-MON-006-001-02	Total/NA	Water	9060A	
480-173915-3	8-MON-006-001-03	Total/NA	Water	9060A	
MB 480-547151/4	Method Blank	Total/NA	Water	9060A	
LCS 480-547151/5	Lab Control Sample	Total/NA	Water	9060A	



# Lab Chronicle

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-01**

**Lab Sample ID: 480-173915-1**

Date Collected: 08/17/20 10:30

Matrix: Water

Date Received: 08/18/20 10:30

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 11:18	AMM	TAL BUF
Total/NA	Prep	3510C			545870	08/19/20 14:47	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	546301	08/21/20 14:56	CLA	TAL BUF
Total/NA	Prep	3510C			545767	08/19/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	546268	08/22/20 02:22	JMM	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 21:00	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 16:09	BWC	TAL BUR
Total/NA	Prep	3005A			545970	08/20/20 10:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	546476	08/21/20 14:45	LMH	TAL BUF
Total/NA	Prep	7470A			546068	08/20/20 12:40	BMB	TAL BUF
Total/NA	Analysis	7470A		1	546148	08/20/20 15:35	BMB	TAL BUF
Total/NA	Analysis	300.0		5	546124	08/21/20 00:04	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	545830	08/19/20 10:43	CLT	TAL BUF
Total/NA	Analysis	410.4		1	546067	08/19/20 20:17	CSS	TAL BUF
Total/NA	Analysis	9060A		1	547151	08/27/20 03:59	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	546405	08/21/20 20:25	BEF	TAL BUF
Total/NA	Analysis	SM 2340C		1	545887	08/19/20 12:15	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	545903	08/19/20 16:39	E1T	TAL BUF

**Client Sample ID: 8-MON-006-001-02**

**Lab Sample ID: 480-173915-2**

Date Collected: 08/17/20 12:30

Matrix: Water

Date Received: 08/18/20 10:30

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 11:41	AMM	TAL BUF
Total/NA	Prep	3510C			545870	08/19/20 14:47	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	546301	08/21/20 15:18	CLA	TAL BUF
Total/NA	Prep	3510C			545767	08/19/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	546268	08/22/20 02:52	JMM	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 21:08	BWC	TAL BUR
Total/NA	Prep	3005A			545970	08/20/20 10:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	546476	08/21/20 14:49	LMH	TAL BUF
Total/NA	Prep	7470A			546068	08/20/20 12:40	BMB	TAL BUF
Total/NA	Analysis	7470A		1	546148	08/20/20 15:36	BMB	TAL BUF
Total/NA	Analysis	300.0		10	546124	08/21/20 00:19	IMZ	TAL BUF
Total/NA	Analysis	300.0		20	546234	08/21/20 10:53	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	545830	08/19/20 10:45	CLT	TAL BUF
Total/NA	Analysis	410.4		1	546067	08/19/20 20:17	CSS	TAL BUF
Total/NA	Analysis	9060A		1	547151	08/27/20 04:26	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	546405	08/21/20 20:32	BEF	TAL BUF

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# Lab Chronicle

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-02**

**Lab Sample ID: 480-173915-2**

Date Collected: 08/17/20 12:30

Matrix: Water

Date Received: 08/18/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2340C		1	545887	08/19/20 12:15	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	545903	08/19/20 16:39	E1T	TAL BUF

**Client Sample ID: 8-MON-006-001-03**

**Lab Sample ID: 480-173915-3**

Date Collected: 08/17/20 14:00

Matrix: Water

Date Received: 08/18/20 10:30

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 12:04	AMM	TAL BUF
Total/NA	Prep	3510C			545870	08/19/20 14:47	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	546301	08/21/20 15:41	CLA	TAL BUF
Total/NA	Prep	3510C			545767	08/19/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	546268	08/22/20 03:21	JMM	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 21:17	BWC	TAL BUR
Total/NA	Prep	3005A			545970	08/20/20 10:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	546476	08/21/20 14:53	LMH	TAL BUF
Total/NA	Prep	7470A			546068	08/20/20 12:40	BMB	TAL BUF
Total/NA	Analysis	7470A		1	546148	08/20/20 15:38	BMB	TAL BUF
Total/NA	Analysis	300.0		5	546124	08/21/20 00:33	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	545830	08/19/20 10:46	CLT	TAL BUF
Total/NA	Analysis	410.4		1	546067	08/19/20 20:17	CSS	TAL BUF
Total/NA	Analysis	9060A		1	547151	08/27/20 04:53	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	546405	08/21/20 20:39	BEF	TAL BUF
Total/NA	Analysis	SM 2340C		1	545887	08/19/20 12:15	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	545903	08/19/20 16:39	E1T	TAL BUF

**Client Sample ID: 8-MON-006-001-04**

**Lab Sample ID: 480-173915-4**

Date Collected: 08/17/20 14:30

Matrix: Water

Date Received: 08/18/20 10:30

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 21:25	BWC	TAL BUR

**Client Sample ID: 8-MON-006-001-05**

**Lab Sample ID: 480-173915-5**

Date Collected: 08/17/20 14:35

Matrix: Water

Date Received: 08/18/20 10:30

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 21:33	BWC	TAL BUR

# Lab Chronicle

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

**Client Sample ID: 8-MON-006-001-06**

**Lab Sample ID: 480-173915-6**

**Date Collected: 08/17/20 00:00**

**Matrix: Water**

**Date Received: 08/18/20 10:30**

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 12:27	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

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# Accreditation/Certification Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173915-1

## 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 CaCO <sub>3</sub>

## 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-006 Little League Sanitary LF

Job ID: 480-173915-1

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 CaCO <sub>3</sub> )	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-006 Little League Sanitary LF

Job ID: 480-173915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-173915-1	8-MON-006-001-01	Water	08/17/20 10:30	08/18/20 10:30	
480-173915-2	8-MON-006-001-02	Water	08/17/20 12:30	08/18/20 10:30	
480-173915-3	8-MON-006-001-03	Water	08/17/20 14:00	08/18/20 10:30	
480-173915-4	8-MON-006-001-04	Water	08/17/20 14:30	08/18/20 10:30	
480-173915-5	8-MON-006-001-05	Water	08/17/20 14:35	08/18/20 10:30	
480-173915-6	8-MON-006-001-06	Water	08/17/20 00:00	08/18/20 10:30	

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Revised

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information

Lab Name: TestAmerica
Attention: John Schove
Address: 10 Hazelwood Drive Amherst, NY 14228-2298
Phone: (716) 504-9838
Email: John.Schove@testamericainc.com

Section B Client Information

Company: Parsons
Attention: George Moreau
Address: 301 Plainfield Road, Suite 350 Syracuse, NY 13212
Phone: 315-552-9715
Email: George.H.Moreau@parsons.com

COC #: 8-MON-006-001
Project Name: ILI - Region 8
Project Site: Little League LF
Project Number: 450619 MS2148 AEs

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

Table with columns: Location ID, Start Depth (ft), End Depth (ft), Field Sample ID, Sample Date, Sample Time, Sample Matrix, Sample Type, # of Cont., MS/MSD, #Bottles, and various chemical analysis parameters like Dissolved Mod Metals/Hg, Alkalinity SM20, etc.

Special Instructions:


Administrative section containing Relinquished By, Accepted By, Company, Date/Time, and Preservatives information.



**CHAIN-OF-CUSTODY / Analytical Request Document**

<b>Section A Laboratory Information</b>		<b>Section B Client Information</b>		<b>COC #:</b> 8-MON-006-001					
Lab Name: TestAmerica	Company: Parsons	Project Name: ILI - Region 8							
Attention: John Schove	Attention: George Moreau	Project Site: Little League LF							
Address: 10 Hazelwood Drive Amherst, NY 14228-2298	Address: 301 Plainfield Road, Suite 350 Syracuse, NY 13212	Project Number: 450619 V52148 A18							
Phone: (716) 504-9838	Phone: 315-552-9715	Preservative codes (for water only):							
Email: John.Schove@testamericainc.com	Email: George.H.Moreau@parsons.com	0	1	0	0	0	0	0	2

<b>Section C Deliverable Requirements</b>		<b>Section D Additional Information</b>	
Report To: George.H.Moreau@parsons.com	Purchase Order No: TAT - 10 Day	MS/MSD	#Bottles
Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com		Composite (Y/N)	
Maryanne.Kosciewicz@parsons.com; Heather.Fettig@parsons.com			

Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.
8-MON-006-MV-03	8	18	8-MON-006-001-01	8/17/20	1030	QIG	N	17
8-MON-006-MV-05	4.36	30.45	8-MON-006-001-02	8/17/20	1230	WG	N	17
8-MON-006-MW-04	4.85	24.55	8-MON-006-001-03	8/17/20	1400	WG	N	17
8-MON Field QC	-	-	8-MON-006-001-04	8/17/20	1430	WQ	EB	2
Field QC	-	-	8-MON-006-001-05	8/17/20	1435	WQ	FB	2
Field QC	-	-	8-MON-006-001-06	8/17/20	-	WA	TB	1
								

**Special Instructions:** 480-173915 Chain of Custody

**Syracuse #225**

#1 26, 2.9

Reinforced By: <i>AS Singh</i>	Company: Parsons	Cooler Temp.: Rec'd on Ice: Yes <input type="checkbox"/> No <input type="checkbox"/>
Accepted By: <i>AS Singh</i>	Date/Time: 8/17/20 16:15	Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>
Shipment Tracking No:	Company: <i>AS Singh</i>	Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>
Date/Time:	Date/Time: 8/17/20 16:15	Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>

Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn Acetate; 6 = MeOH; 17 = Other (H3PO4)

*From Site: P-AC → BUT; bali → BAE -RG*

*Reling: P-6's high, 8-17-20, 1902.*

*Signature: Cwaluke 8/18/20 1030*

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**CHAIN-OF-CUSTODY / Analytical Request Document**

**Section A Laboratory Information**

Lab Name: TestAmerica  
 Attention: John Schove  
 10 Hazelwood Drive  
 Amherst, NY 14228-2298  
 Phone: (716) 504-9838  
 Email: John.Schove@testamericainc.com

**Section B Client Information**

Company: Parsons  
 Attention: George Moreau  
 301 Plainfield Road, Suite 350  
 Syracuse, NY 13212  
 Phone: 315-552-9715  
 Email: George.H.Moreau@parsons.com

**COC #:**

8-MON-006-001

**Project Name:**

ILL - Region 8

**Project Site:**

Little League LF

**Project Number:**

450619 V52148 AKS

**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

**Section D Additional Information**

480-173915 Chain of Custody



Preservative codes (for water only):

0	1	0	0	2	2	3	1	0	0	0	2
---	---	---	---	---	---	---	---	---	---	---	---

Dissolved Mod Metals/Hg 6010/7470

Alkalinity SM20 23208

TDS SM25400

SO4/CHL/BRO 300.0

OC 9060A

50.1/410.4

20 2340C

5010/7470

82705IM

82705IM

OCs 8260

Filtered 537

Seals (Y/N)

MS/MSD

#Bottles

Sample Date

Sample Time

Sample Matrix

Sample Type

# of Cont.

Field Sample ID

End Depth (ft)

Start Depth (ft)

Location ID

Field Sample ID

MUST BE UNIQUE

Field Sample ID

MUST BE UNIQUE

Field Sample ID

MUST BE UNIQUE

Field Sample ID

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Syracuse

#225

**Special Instructions:**

From Site: P-01-01 → BUT: b.a.1 → BULF -06  
 Company: PARSONS  
 Date/Time: 08/17/20 14:45  
 Shipment Tracking No:  
 Date/Time:  
 Relinquished By: [Signature]  
 Company: PARSONS  
 Date/Time: 08/17/20 16:15  
 Accepted By: [Signature]  
 Date/Time: 8/17/20 16:15  
 Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; [8 = Other (H3PO4)];  
 Replng: Re-test in 8-17-20, 1900.  
 8/18/20 10:36





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

SHIP DATE: 17AUG20  
ACTWGT: 11.00 LB MAN  
CAD: 0883373/CAFE3313

SYRACUSE, NY 13211  
UNITED STATES US

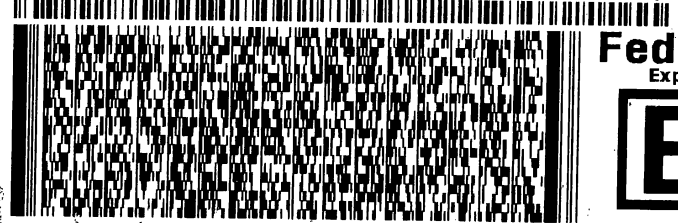
BILL RECEIPT

TO **SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE SUITE 11**

**SOUTH BURLINGTON VT 05403**

(802) 860-1990

REF: PARSONS ILI LITTLE LG. 1COOLER

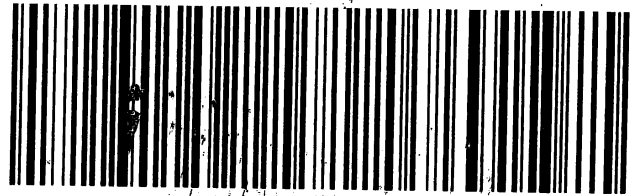


TRK# 1870 7198 2860  
0201

TUE - 18 AUG 10:30A  
PRIORITY OVERNIGHT

**NL BTVA**

05403  
VT-US BTV



## Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-173915-1

**Login Number: 173915**

**List Source: Eurofins TestAmerica, Buffalo**

**List Number: 1**

**Creator: Wallace, Cameron**

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: 480-173915-1

**Login Number: 173915**

**List Number: 2**

**Creator: Khudaier, Zahraa**

**List Source: Eurofins TestAmerica, Burlington**

**List Creation: 08/19/20 09:48 AM**

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	1313160
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	0.6°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	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	



## ANALYTICAL REPORT

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

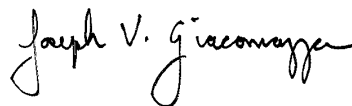
Laboratory Job ID: 480-173953-1

Client Project/Site: 8-MON-006 Little League Sanitary LF

**For:**

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

Attn: Mr. George Moreau



Authorized for release by:  
8/27/2020 1:56:23 PM

Joe Giacomazza, Project Manager I  
(716)691-2600

[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

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

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



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# Definitions/Glossary

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
^	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

# Case Narrative

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## Job ID: 480-173953-1

### Laboratory: Eurofins TestAmerica, Buffalo

#### Narrative

#### Job Narrative 480-173953-1

#### 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 3.1° 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-006-002-01 (480-173953-1) and 8-MON-006-002-02 (480-173953-2). 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-006-002-01 (480-173953-1), 8-MON-006-002-02 (480-173953-2) and 8-MON-006-002-05 (480-173953-5).

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 samples were diluted to bring the concentration of target analytes within the calibration range: 8-MON-006-002-01 (480-173953-1) and 8-MON-006-002-02 (480-173953-2). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The 1,4-Dioxane result reported for samples 8-MON-006-002-01 (480-173953-1) and 8-MON-006-002-02 (480-173953-2) 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 samples were diluted to bring the concentration of target analytes within the calibration range: 8-MON-006-002-01 (480-173953-1) and 8-MON-006-002-02 (480-173953-2). 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

# Case Narrative

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

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## Job ID: 480-173953-1 (Continued)

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### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

solution. 8-MON-006-002-01 (480-173953-1), 8-MON-006-002-02 (480-173953-2), (LCS 480-545977/2-A) 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 200-158100 and analytical batch 200-158123 contained Perfluoropentanoic acid (PFPeA) 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 Ion Ratio associated with PFOS in sample 8-MON-006-002-02 (480-173953-2) fails our in-house defined limits, however the result is being reported because the peaks observed for both mass transitions are within the expected retention time windows for the branched chain isomers in our calibration mix. Since many of these isomers are at very low levels in our mixed calibration source (many are less than 5% of the solution), it's difficult to project how the different isomer's responses differ at higher levels, so we don't feel comfortable rejecting the detect based solely upon the ratio failure.

Method 537 (modified): Results for sample 8-MON-006-002-01 (480-173953-1) 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 SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8-MON-006-002-01 (480-173953-1) and 8-MON-006-002-02 (480-173953-2). 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-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-01**

**Lab Sample ID: 480-173953-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	68	E	4.0	2.0	ug/L	20		8270D SIM ID	Total/NA
Phenanthrene	0.40	J B	0.50	0.38	ug/L	1		8270D_LL_PAH	Total/NA
Perfluorobutanesulfonic acid (PFBS)	30		1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	20		1.8	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.5		1.8	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	230		1.8	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.72	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	30		1.8	0.71	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	78	B	1.8	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	2900		35	18	ng/L	20		537 (modified)	Total/NA
Barium	0.24	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.56		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	422		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.00072	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0016	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	18.4		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	101		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.1		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.015		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	3.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	328		1.0	0.32	mg/L	1		6010C	Total/NA
Bromide	5.3		2.0	0.73	mg/L	10		300.0	Total/NA
Chloride	879		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	161		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	1.2		0.020	0.0090	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	92.1		10.0	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	30.9		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	778		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	1700		50.0	13.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	3090		40.0	16.0	mg/L	1		SM 2540C	Total/NA

**Client Sample ID: 8-MON-006-002-02**

**Lab Sample ID: 480-173953-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	26	E	1.0	0.50	ug/L	5		8270D SIM ID	Total/NA
Phenanthrene	0.39	J B	0.50	0.38	ug/L	1		8270D_LL_PAH	Total/NA
Perfluorobutanesulfonic acid (PFBS)	16		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	270		1.8	0.90	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.6	J	1.8	0.85	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	45		1.8	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	17		1.8	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	110		1.8	0.68	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.61	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	15	I	1.8	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	130		1.8	0.73	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	33	B	1.8	0.56	ng/L	1		537 (modified)	Total/NA
Aluminum	0.15	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.89	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.67		0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	245		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0019	J	0.0040	0.00063	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## Client Sample ID: 8-MON-006-002-02 (Continued)

Lab Sample ID: 480-173953-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	21.4		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	70.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.2		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0018	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	159		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0023	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Bromide	2.9		1.0	0.37	mg/L	5		300.0	Total/NA
Chloride	171		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	17.4		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	3.6		0.040	0.018	mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	116		20.0	10.0	mg/L	2		410.4	Total/NA
Total Organic Carbon	32.3		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	988		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total hardness as CaCO3	900		50.0	13.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	1360		20.0	8.0	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: 8-MON-006-002-03

Lab Sample ID: 480-173953-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.3	J	1.9	0.94	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 8-MON-006-002-04

Lab Sample ID: 480-173953-4

No Detections.

## Client Sample ID: 8-MON-006-002-05

Lab Sample ID: 480-173953-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo



# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-01**

**Lab Sample ID: 480-173953-1**

Date Collected: 08/18/20 10:15

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		4.0	1.4	ug/L			08/24/20 13:45	4
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			08/24/20 13:45	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			08/24/20 13:45	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			08/24/20 13:45	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			08/24/20 13:45	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			08/24/20 13:45	4
1,2,3-Trichloropropane	ND		4.0	3.6	ug/L			08/24/20 13:45	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			08/24/20 13:45	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			08/24/20 13:45	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			08/24/20 13:45	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			08/24/20 13:45	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			08/24/20 13:45	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			08/24/20 13:45	4
2-Butanone (MEK)	ND		40	5.3	ug/L			08/24/20 13:45	4
2-Hexanone	ND		20	5.0	ug/L			08/24/20 13:45	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			08/24/20 13:45	4
Acetone	ND		40	12	ug/L			08/24/20 13:45	4
Acrylonitrile	ND *		20	3.3	ug/L			08/24/20 13:45	4
Benzene	ND		4.0	1.6	ug/L			08/24/20 13:45	4
Bromodichloromethane	ND		4.0	1.6	ug/L			08/24/20 13:45	4
Bromoform	ND		4.0	1.0	ug/L			08/24/20 13:45	4
Bromomethane	ND		4.0	2.8	ug/L			08/24/20 13:45	4
Carbon disulfide	ND		4.0	0.76	ug/L			08/24/20 13:45	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			08/24/20 13:45	4
Chlorobenzene	ND		4.0	3.0	ug/L			08/24/20 13:45	4
Chlorobromomethane	ND		4.0	3.5	ug/L			08/24/20 13:45	4
Chloroethane	ND		4.0	1.3	ug/L			08/24/20 13:45	4
Chloroform	ND		4.0	1.4	ug/L			08/24/20 13:45	4
Chloromethane	ND		4.0	1.4	ug/L			08/24/20 13:45	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			08/24/20 13:45	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			08/24/20 13:45	4
Dibromochloromethane	ND		4.0	1.3	ug/L			08/24/20 13:45	4
Dibromomethane	ND		4.0	1.6	ug/L			08/24/20 13:45	4
Ethylbenzene	ND		4.0	3.0	ug/L			08/24/20 13:45	4
Iodomethane	ND		4.0	1.2	ug/L			08/24/20 13:45	4
m,p-Xylene	ND		8.0	2.6	ug/L			08/24/20 13:45	4
Methylene Chloride	ND		4.0	1.8	ug/L			08/24/20 13:45	4
o-Xylene	ND		4.0	3.0	ug/L			08/24/20 13:45	4
Styrene	ND		4.0	2.9	ug/L			08/24/20 13:45	4
Tetrachloroethene	ND		4.0	1.4	ug/L			08/24/20 13:45	4
Toluene	ND		4.0	2.0	ug/L			08/24/20 13:45	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			08/24/20 13:45	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			08/24/20 13:45	4
trans-1,4-Dichloro-2-butene	ND		4.0	0.88	ug/L			08/24/20 13:45	4
Trichloroethene	ND		4.0	1.8	ug/L			08/24/20 13:45	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			08/24/20 13:45	4
Vinyl acetate	ND		20	3.4	ug/L			08/24/20 13:45	4
Vinyl chloride	ND		4.0	3.6	ug/L			08/24/20 13:45	4
Xylenes, Total	ND		8.0	2.6	ug/L			08/24/20 13:45	4

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-01**

**Lab Sample ID: 480-173953-1**

Date Collected: 08/18/20 10:15

Matrix: Water

Date Received: 08/19/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		08/24/20 13:45	4
4-Bromofluorobenzene (Surr)	97		73 - 120		08/24/20 13:45	4
Dibromofluoromethane (Surr)	97		75 - 123		08/24/20 13:45	4
Toluene-d8 (Surr)	100		80 - 120		08/24/20 13:45	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	68	E	4.0	2.0	ug/L		08/19/20 14:47	08/22/20 17:53	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	23		15 - 110	08/19/20 14:47	08/22/20 17:53	20

**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 09:37	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/24/20 07:49	08/26/20 09:37	1
Anthracene	ND		0.50	0.39	ug/L		08/24/20 07:49	08/26/20 09:37	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/24/20 07:49	08/26/20 09:37	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 09:37	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 09:37	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 09:37	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/24/20 07:49	08/26/20 09:37	1
Chrysene	ND		0.50	0.32	ug/L		08/24/20 07:49	08/26/20 09:37	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 09:37	1
Fluoranthene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 09:37	1
Fluorene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 09:37	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/24/20 07:49	08/26/20 09:37	1
Naphthalene	ND		0.50	0.42	ug/L		08/24/20 07:49	08/26/20 09:37	1
Phenanthrene	0.40	J B	0.50	0.38	ug/L		08/24/20 07:49	08/26/20 09:37	1
Pyrene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		48 - 120	08/24/20 07:49	08/26/20 09:37	1
Nitrobenzene-d5	95		46 - 120	08/24/20 07:49	08/26/20 09:37	1
p-Terphenyl-d14	47		24 - 136	08/24/20 07:49	08/26/20 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.6	ng/L		08/20/20 08:49	08/20/20 22:49	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.8	ng/L		08/20/20 08:49	08/20/20 22:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	ND		18	1.3	ng/L		08/20/20 08:49	08/20/20 22:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorobutanesulfonic acid (PFBS)	30		1.8	0.43	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.79	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.68	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.84	ng/L		08/20/20 08:49	08/20/20 22:49	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-01**

**Lab Sample ID: 480-173953-1**

Date Collected: 08/18/20 10:15

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
Perfluoroheptanoic acid (PFHpA)	20		1.8	0.80	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorohexanesulfonic acid (PFHxS)	3.5		1.8	0.71	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorohexanoic acid (PFHxA)	230		1.8	0.67	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorononanoic acid (PFNA)	0.72	J	1.8	0.24	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.8	8.8	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorooctanoic acid (PFOA)	30		1.8	0.71	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluoropentanoic acid (PFPeA)	78	B	1.8	0.56	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		08/20/20 08:49	08/20/20 22:49	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.69	ng/L		08/20/20 08:49	08/20/20 22:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	82		50 - 150	08/20/20 08:49	08/20/20 22:49	1
13C2 PFDoA	88		50 - 150	08/20/20 08:49	08/20/20 22:49	1
13C2 PFHxA	76		50 - 150	08/20/20 08:49	08/20/20 22:49	1
13C2 PFUnA	77		50 - 150	08/20/20 08:49	08/20/20 22:49	1
13C2 PFTeDA	76		50 - 150	08/20/20 08:49	08/20/20 22:49	1
13C4 PFOA	97		50 - 150	08/20/20 08:49	08/20/20 22:49	1
13C4 PFOS	76		50 - 150	08/20/20 08:49	08/20/20 22:49	1
13C4 PFHpA	90		50 - 150	08/20/20 08:49	08/20/20 22:49	1
13C5 PFNA	90		50 - 150	08/20/20 08:49	08/20/20 22:49	1
13C5 PFPeA	57		25 - 150	08/20/20 08:49	08/20/20 22:49	1
13C8 FOSA	62		25 - 150	08/20/20 08:49	08/20/20 22:49	1
18O2 PFHxS	88		50 - 150	08/20/20 08:49	08/20/20 22:49	1
d3-NMeFOSAA	62		50 - 150	08/20/20 08:49	08/20/20 22:49	1
d5-NEtFOSAA	71		50 - 150	08/20/20 08:49	08/20/20 22:49	1
M2-6:2 FTS	107		25 - 150	08/20/20 08:49	08/20/20 22:49	1
M2-8:2 FTS	72		25 - 150	08/20/20 08:49	08/20/20 22:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2900		35	18	ng/L		08/20/20 08:49	08/21/20 18:23	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	88		25 - 150	08/20/20 08:49	08/21/20 18:23	20

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

Analyte	Result	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 15:39	1
Antimony	ND		0.020	0.0068	mg/L		08/21/20 09:58	08/24/20 15:39	1
Arsenic	ND		0.015	0.0056	mg/L		08/21/20 09:58	08/24/20 15:39	1
Barium	0.24	^	0.0020	0.00070	mg/L		08/21/20 09:58	08/24/20 15:39	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/20 09:58	08/24/20 15:39	1
Boron	0.56		0.020	0.0040	mg/L		08/21/20 09:58	08/24/20 15:39	1
Cadmium	ND		0.0020	0.00050	mg/L		08/21/20 09:58	08/24/20 15:39	1
Calcium	422		0.50	0.10	mg/L		08/21/20 09:58	08/24/20 15:39	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/20 09:58	08/24/20 15:39	1
Cobalt	0.00072	J	0.0040	0.00063	mg/L		08/21/20 09:58	08/24/20 15:39	1
Copper	0.0016	J	0.010	0.0016	mg/L		08/21/20 09:58	08/24/20 15:39	1
Iron	18.4		0.050	0.019	mg/L		08/21/20 09:58	08/24/20 15:39	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-01**

**Lab Sample ID: 480-173953-1**

Date Collected: 08/18/20 10:15

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
Lead	ND		0.010	0.0030	mg/L		08/21/20 09:58	08/24/20 15:39	1
Magnesium	101		0.20	0.043	mg/L		08/21/20 09:58	08/24/20 15:39	1
Manganese	1.1		0.0030	0.00040	mg/L		08/21/20 09:58	08/24/20 15:39	1
Nickel	0.015		0.010	0.0013	mg/L		08/21/20 09:58	08/24/20 15:39	1
Potassium	3.0		0.50	0.10	mg/L		08/21/20 09:58	08/24/20 15:39	1
Selenium	ND		0.025	0.0087	mg/L		08/21/20 09:58	08/24/20 15:39	1
Silver	ND		0.0060	0.0017	mg/L		08/21/20 09:58	08/24/20 15:39	1
Sodium	328		1.0	0.32	mg/L		08/21/20 09:58	08/24/20 15:39	1
Thallium	ND		0.020	0.010	mg/L		08/21/20 09:58	08/24/20 15:39	1
Vanadium	ND		0.0050	0.0015	mg/L		08/21/20 09:58	08/24/20 15:39	1
Zinc	ND		0.010	0.0015	mg/L		08/21/20 09:58	08/24/20 15:39	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 16:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	5.3		2.0	0.73	mg/L			08/24/20 14:38	10
Chloride	879		5.0	2.8	mg/L			08/24/20 14:38	10
Sulfate	161		20.0	3.5	mg/L			08/24/20 14:38	10
Ammonia	1.2		0.020	0.0090	mg/L			08/20/20 08:47	1
Chemical Oxygen Demand	92.1		10.0	5.0	mg/L			08/22/20 22:01	1
Total Organic Carbon	30.9		1.0	0.43	mg/L			08/20/20 00:54	1
Alkalinity, Total	778		5.0	0.79	mg/L			08/21/20 22:57	1
Total hardness as CaCO3	1700		50.0	13.1	mg/L			08/20/20 09:25	1
Total Dissolved Solids	3090		40.0	16.0	mg/L			08/19/20 16:40	1

**Client Sample ID: 8-MON-006-002-02**

**Lab Sample ID: 480-173953-2**

Date Collected: 08/18/20 12:15

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		4.0	1.4	ug/L			08/24/20 14:08	4
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			08/24/20 14:08	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			08/24/20 14:08	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			08/24/20 14:08	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			08/24/20 14:08	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			08/24/20 14:08	4
1,2,3-Trichloropropane	ND		4.0	3.6	ug/L			08/24/20 14:08	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			08/24/20 14:08	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			08/24/20 14:08	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			08/24/20 14:08	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			08/24/20 14:08	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			08/24/20 14:08	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			08/24/20 14:08	4
2-Butanone (MEK)	ND		40	5.3	ug/L			08/24/20 14:08	4
2-Hexanone	ND		20	5.0	ug/L			08/24/20 14:08	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			08/24/20 14:08	4

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-02**

**Lab Sample ID: 480-173953-2**

Date Collected: 08/18/20 12:15

Matrix: Water

Date Received: 08/19/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		40	12	ug/L			08/24/20 14:08	4
Acrylonitrile	ND	*	20	3.3	ug/L			08/24/20 14:08	4
Benzene	ND		4.0	1.6	ug/L			08/24/20 14:08	4
Bromodichloromethane	ND		4.0	1.6	ug/L			08/24/20 14:08	4
Bromoform	ND		4.0	1.0	ug/L			08/24/20 14:08	4
Bromomethane	ND		4.0	2.8	ug/L			08/24/20 14:08	4
Carbon disulfide	ND		4.0	0.76	ug/L			08/24/20 14:08	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			08/24/20 14:08	4
Chlorobenzene	ND		4.0	3.0	ug/L			08/24/20 14:08	4
Chlorobromomethane	ND		4.0	3.5	ug/L			08/24/20 14:08	4
Chloroethane	ND		4.0	1.3	ug/L			08/24/20 14:08	4
Chloroform	ND		4.0	1.4	ug/L			08/24/20 14:08	4
Chloromethane	ND		4.0	1.4	ug/L			08/24/20 14:08	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			08/24/20 14:08	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			08/24/20 14:08	4
Dibromochloromethane	ND		4.0	1.3	ug/L			08/24/20 14:08	4
Dibromomethane	ND		4.0	1.6	ug/L			08/24/20 14:08	4
Ethylbenzene	ND		4.0	3.0	ug/L			08/24/20 14:08	4
Iodomethane	ND		4.0	1.2	ug/L			08/24/20 14:08	4
m,p-Xylene	ND		8.0	2.6	ug/L			08/24/20 14:08	4
Methylene Chloride	ND		4.0	1.8	ug/L			08/24/20 14:08	4
o-Xylene	ND		4.0	3.0	ug/L			08/24/20 14:08	4
Styrene	ND		4.0	2.9	ug/L			08/24/20 14:08	4
Tetrachloroethene	ND		4.0	1.4	ug/L			08/24/20 14:08	4
Toluene	ND		4.0	2.0	ug/L			08/24/20 14:08	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			08/24/20 14:08	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			08/24/20 14:08	4
trans-1,4-Dichloro-2-butene	ND		4.0	0.88	ug/L			08/24/20 14:08	4
Trichloroethene	ND		4.0	1.8	ug/L			08/24/20 14:08	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			08/24/20 14:08	4
Vinyl acetate	ND		20	3.4	ug/L			08/24/20 14:08	4
Vinyl chloride	ND		4.0	3.6	ug/L			08/24/20 14:08	4
Xylenes, Total	ND		8.0	2.6	ug/L			08/24/20 14:08	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		08/24/20 14:08	4
4-Bromofluorobenzene (Surr)	97		73 - 120		08/24/20 14:08	4
Dibromofluoromethane (Surr)	100		75 - 123		08/24/20 14:08	4
Toluene-d8 (Surr)	99		80 - 120		08/24/20 14:08	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	26	E	1.0	0.50	ug/L		08/19/20 14:47	08/22/20 18:16	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	22		15 - 110	08/19/20 14:47	08/22/20 18:16	5			

**Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 10:05	1
Acenaphthylene	ND		0.50	0.34	ug/L		08/24/20 07:49	08/26/20 10:05	1

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-02**

**Lab Sample ID: 480-173953-2**

Date Collected: 08/18/20 12:15

Matrix: Water

Date Received: 08/19/20 08:00

**Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.50	0.39	ug/L		08/24/20 07:49	08/26/20 10:05	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		08/24/20 07:49	08/26/20 10:05	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 10:05	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		08/24/20 07:49	08/26/20 10:05	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 10:05	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		08/24/20 07:49	08/26/20 10:05	1
Chrysene	ND		0.50	0.32	ug/L		08/24/20 07:49	08/26/20 10:05	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		08/24/20 07:49	08/26/20 10:05	1
Fluoranthene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 10:05	1
Fluorene	ND		0.50	0.37	ug/L		08/24/20 07:49	08/26/20 10:05	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		08/24/20 07:49	08/26/20 10:05	1
Naphthalene	ND		0.50	0.42	ug/L		08/24/20 07:49	08/26/20 10:05	1
<b>Phenanthrene</b>	<b>0.39</b>	<b>J B</b>	0.50	0.38	ug/L		08/24/20 07:49	08/26/20 10:05	1
Pyrene	ND		0.50	0.36	ug/L		08/24/20 07:49	08/26/20 10:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		48 - 120				08/24/20 07:49	08/26/20 10:05	1
Nitrobenzene-d5	95		46 - 120				08/24/20 07:49	08/26/20 10:05	1
p-Terphenyl-d14	55		24 - 136				08/24/20 07:49	08/26/20 10:05	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		08/20/20 08:49	08/20/20 22:58	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.9	ng/L		08/20/20 08:49	08/20/20 22:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	ND		18	1.3	ng/L		08/20/20 08:49	08/20/20 22:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>16</b>		1.8	0.44	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>270</b>		1.8	0.90	ng/L		08/20/20 08:49	08/21/20 18:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.81	ng/L		08/20/20 08:49	08/20/20 22:58	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.69	ng/L		08/20/20 08:49	08/20/20 22:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.53	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluoroheptanesulfonic Acid (PFHpS)</b>	<b>1.6</b>	<b>J</b>	1.8	0.85	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>45</b>		1.8	0.81	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>17</b>		1.8	0.72	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>110</b>		1.8	0.68	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>0.61</b>	<b>J</b>	1.8	0.24	ng/L		08/20/20 08:49	08/20/20 22:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.0	9.0	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>15</b>	<b>I</b>	1.8	0.55	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>130</b>		1.8	0.73	ng/L		08/20/20 08:49	08/20/20 22:58	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>33</b>	<b>B</b>	1.8	0.56	ng/L		08/20/20 08:49	08/20/20 22:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.82	ng/L		08/20/20 08:49	08/20/20 22:58	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.54	ng/L		08/20/20 08:49	08/20/20 22:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.70	ng/L		08/20/20 08:49	08/20/20 22:58	1

Eurofins TestAmerica, Buffalo



# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-02**

**Lab Sample ID: 480-173953-2**

Date Collected: 08/18/20 12:15

Matrix: Water

Date Received: 08/19/20 08:00

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	54		50 - 150	08/20/20 08:49	08/20/20 22:58	1
13C2 PFDoA	59		50 - 150	08/20/20 08:49	08/20/20 22:58	1
13C2 PFHxA	70		50 - 150	08/20/20 08:49	08/20/20 22:58	1
13C2 PFUnA	52		50 - 150	08/20/20 08:49	08/20/20 22:58	1
13C2 PFTeDA	58		50 - 150	08/20/20 08:49	08/20/20 22:58	1
13C4 PFBA	43		25 - 150	08/20/20 08:49	08/21/20 18:31	1
13C4 PFOA	77		50 - 150	08/20/20 08:49	08/20/20 22:58	1
13C4 PFOS	50		50 - 150	08/20/20 08:49	08/20/20 22:58	1
13C4 PFHpA	74		50 - 150	08/20/20 08:49	08/20/20 22:58	1
13C5 PFNA	59		50 - 150	08/20/20 08:49	08/20/20 22:58	1
13C5 PFPeA	57		25 - 150	08/20/20 08:49	08/20/20 22:58	1
13C8 FOSA	47		25 - 150	08/20/20 08:49	08/20/20 22:58	1
18O2 PFHxS	68		50 - 150	08/20/20 08:49	08/20/20 22:58	1
d3-NMeFOSAA	54		50 - 150	08/20/20 08:49	08/20/20 22:58	1
d5-NEtFOSAA	53		50 - 150	08/20/20 08:49	08/20/20 22:58	1
M2-6:2 FTS	103		25 - 150	08/20/20 08:49	08/20/20 22:58	1
M2-8:2 FTS	58		25 - 150	08/20/20 08:49	08/20/20 22:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>0.15</b>	<b>J</b>	0.20	0.060	mg/L		08/21/20 09:58	08/24/20 15:43	1
Antimony	ND		0.020	0.0068	mg/L		08/21/20 09:58	08/24/20 15:43	1
Arsenic	ND		0.015	0.0056	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Barium</b>	<b>0.89</b>	<b>^</b>	0.0020	0.00070	mg/L		08/21/20 09:58	08/24/20 15:43	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Boron</b>	<b>0.67</b>		0.020	0.0040	mg/L		08/21/20 09:58	08/24/20 15:43	1
Cadmium	ND		0.0020	0.00050	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Calcium</b>	<b>245</b>		0.50	0.10	mg/L		08/21/20 09:58	08/24/20 15:43	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Cobalt</b>	<b>0.0019</b>	<b>J</b>	0.0040	0.00063	mg/L		08/21/20 09:58	08/24/20 15:43	1
Copper	ND		0.010	0.0016	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Iron</b>	<b>21.4</b>		0.050	0.019	mg/L		08/21/20 09:58	08/24/20 15:43	1
Lead	ND		0.010	0.0030	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Magnesium</b>	<b>70.5</b>		0.20	0.043	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Manganese</b>	<b>1.2</b>		0.0030	0.00040	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Nickel</b>	<b>0.0018</b>	<b>J</b>	0.010	0.0013	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Potassium</b>	<b>2.8</b>		0.50	0.10	mg/L		08/21/20 09:58	08/24/20 15:43	1
Selenium	ND		0.025	0.0087	mg/L		08/21/20 09:58	08/24/20 15:43	1
Silver	ND		0.0060	0.0017	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Sodium</b>	<b>159</b>		1.0	0.32	mg/L		08/21/20 09:58	08/24/20 15:43	1
Thallium	ND		0.020	0.010	mg/L		08/21/20 09:58	08/24/20 15:43	1
<b>Vanadium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0015	mg/L		08/21/20 09:58	08/24/20 15:43	1
Zinc	ND		0.010	0.0015	mg/L		08/21/20 09:58	08/24/20 15:43	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 16:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Bromide</b>	<b>2.9</b>		1.0	0.37	mg/L			08/24/20 14:52	5

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-02**

**Lab Sample ID: 480-173953-2**

Date Collected: 08/18/20 12:15

Matrix: Water

Date Received: 08/19/20 08:00

**General Chemistry (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		2.5	1.4	mg/L			08/24/20 14:52	5
Sulfate	17.4		10.0	1.7	mg/L			08/24/20 14:52	5
Ammonia	3.6		0.040	0.018	mg/L			08/20/20 10:19	2
Chemical Oxygen Demand	116		20.0	10.0	mg/L			08/22/20 22:01	2
Total Organic Carbon	32.3		1.0	0.43	mg/L			08/20/20 01:21	1
Alkalinity, Total	988		5.0	0.79	mg/L			08/21/20 23:09	1
Total hardness as CaCO3	900		50.0	13.1	mg/L			08/20/20 09:25	1
Total Dissolved Solids	1360		20.0	8.0	mg/L			08/19/20 16:40	1

**Client Sample ID: 8-MON-006-002-03**

**Lab Sample ID: 480-173953-3**

Date Collected: 08/18/20 12:35

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		19	2.7	ng/L		08/20/20 08:49	08/20/20 23:06	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		19	5.2	ng/L		08/20/20 08:49	08/20/20 23:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	ND		19	1.4	ng/L		08/20/20 08:49	08/20/20 23:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19	1.6	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.46	ng/L		08/20/20 08:49	08/20/20 23:06	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>1.3</b>	<b>J</b>	1.9	0.94	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.85	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.73	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.56	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.90	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.86	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.76	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.72	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.25	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.4	9.4	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.58	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.76	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.59	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.87	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.57	ng/L		08/20/20 08:49	08/20/20 23:06	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.74	ng/L		08/20/20 08:49	08/20/20 23:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	100		50 - 150	08/20/20 08:49	08/20/20 23:06	1
13C2 PFDoA	101		50 - 150	08/20/20 08:49	08/20/20 23:06	1
13C2 PFHxA	101		50 - 150	08/20/20 08:49	08/20/20 23:06	1
13C2 PFUnA	92		50 - 150	08/20/20 08:49	08/20/20 23:06	1
13C2 PFTeDA	88		50 - 150	08/20/20 08:49	08/20/20 23:06	1
13C4 PFBA	103		25 - 150	08/20/20 08:49	08/20/20 23:06	1
13C4 PFOA	97		50 - 150	08/20/20 08:49	08/20/20 23:06	1
13C4 PFOS	93		50 - 150	08/20/20 08:49	08/20/20 23:06	1
13C4 PFHpA	101		50 - 150	08/20/20 08:49	08/20/20 23:06	1

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-03**

**Lab Sample ID: 480-173953-3**

Date Collected: 08/18/20 12:35

Matrix: Water

Date Received: 08/19/20 08:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	98		50 - 150	08/20/20 08:49	08/20/20 23:06	1
13C5 PFPeA	95		25 - 150	08/20/20 08:49	08/20/20 23:06	1
13C8 FOSA	69		25 - 150	08/20/20 08:49	08/20/20 23:06	1
18O2 PFHxS	96		50 - 150	08/20/20 08:49	08/20/20 23:06	1
d3-NMeFOSAA	90		50 - 150	08/20/20 08:49	08/20/20 23:06	1
d5-NEtFOSAA	97		50 - 150	08/20/20 08:49	08/20/20 23:06	1
M2-6:2 FTS	88		25 - 150	08/20/20 08:49	08/20/20 23:06	1
M2-8:2 FTS	101		25 - 150	08/20/20 08:49	08/20/20 23:06	1

**Client Sample ID: 8-MON-006-002-04**

**Lab Sample ID: 480-173953-4**

Date Collected: 08/18/20 12:40

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		19	2.8	ng/L		08/20/20 08:49	08/20/20 23:14	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		19	5.3	ng/L		08/20/20 08:49	08/20/20 23:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19	1.4	ng/L		08/20/20 08:49	08/20/20 23:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19	1.6	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.47	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorobutanoic acid (PFBA)	ND		1.9	0.96	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.87	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.74	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.57	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.92	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.88	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.77	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.73	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.26	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.6	9.6	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.59	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.78	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.61	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.89	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.58	ng/L		08/20/20 08:49	08/20/20 23:14	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.75	ng/L		08/20/20 08:49	08/20/20 23:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	103		50 - 150	08/20/20 08:49	08/20/20 23:14	1
13C2 PFDoA	95		50 - 150	08/20/20 08:49	08/20/20 23:14	1
13C2 PFHxA	110		50 - 150	08/20/20 08:49	08/20/20 23:14	1
13C2 PFUnA	103		50 - 150	08/20/20 08:49	08/20/20 23:14	1
13C2 PFTeDA	91		50 - 150	08/20/20 08:49	08/20/20 23:14	1
13C4 PFBA	80		25 - 150	08/20/20 08:49	08/20/20 23:14	1
13C4 PFOA	103		50 - 150	08/20/20 08:49	08/20/20 23:14	1
13C4 PFOS	99		50 - 150	08/20/20 08:49	08/20/20 23:14	1
13C4 PFHpA	106		50 - 150	08/20/20 08:49	08/20/20 23:14	1

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-04**

**Lab Sample ID: 480-173953-4**

Date Collected: 08/18/20 12:40

Matrix: Water

Date Received: 08/19/20 08:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	103		50 - 150	08/20/20 08:49	08/20/20 23:14	1
13C5 PFPeA	107		25 - 150	08/20/20 08:49	08/20/20 23:14	1
13C8 FOSA	78		25 - 150	08/20/20 08:49	08/20/20 23:14	1
18O2 PFHxS	103		50 - 150	08/20/20 08:49	08/20/20 23:14	1
d3-NMeFOSAA	89		50 - 150	08/20/20 08:49	08/20/20 23:14	1
d5-NEtFOSAA	79		50 - 150	08/20/20 08:49	08/20/20 23:14	1
M2-6:2 FTS	94		25 - 150	08/20/20 08:49	08/20/20 23:14	1
M2-8:2 FTS	101		25 - 150	08/20/20 08:49	08/20/20 23:14	1

**Client Sample ID: 8-MON-006-002-05**

**Lab Sample ID: 480-173953-5**

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 14:31	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/20 14:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/20 14:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/20 14:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/20 14:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/20 14:31	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			08/24/20 14:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/20 14:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/20 14:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/20 14:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/20 14:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/20 14:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/20 14:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/20 14:31	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/20 14:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/20 14:31	1
Acetone	ND		10	3.0	ug/L			08/24/20 14:31	1
Acrylonitrile	ND	*	5.0	0.83	ug/L			08/24/20 14:31	1
Benzene	ND		1.0	0.41	ug/L			08/24/20 14:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/20 14:31	1
Bromoform	ND		1.0	0.26	ug/L			08/24/20 14:31	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/20 14:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/20 14:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/20 14:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/20 14:31	1
Chlorobromomethane	ND		1.0	0.87	ug/L			08/24/20 14:31	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/20 14:31	1
Chloroform	ND		1.0	0.34	ug/L			08/24/20 14:31	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/20 14:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/20 14:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/20 14:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/20 14:31	1
Dibromomethane	ND		1.0	0.41	ug/L			08/24/20 14:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/20 14:31	1
Iodomethane	ND		1.0	0.30	ug/L			08/24/20 14:31	1

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# Client Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-05**

**Lab Sample ID: 480-173953-5**

Date Collected: 08/18/20 00:00

Matrix: Water

Date Received: 08/19/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		2.0	0.66	ug/L			08/24/20 14:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/20 14:31	1
o-Xylene	ND		1.0	0.76	ug/L			08/24/20 14:31	1
Styrene	ND		1.0	0.73	ug/L			08/24/20 14:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/20 14:31	1
Toluene	ND		1.0	0.51	ug/L			08/24/20 14:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/20 14:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/20 14:31	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			08/24/20 14:31	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/20 14:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/20 14:31	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/24/20 14:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/20 14:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/24/20 14:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					08/24/20 14:31	1
4-Bromofluorobenzene (Surr)	97		73 - 120					08/24/20 14:31	1
Dibromofluoromethane (Surr)	99		75 - 123					08/24/20 14:31	1
Toluene-d8 (Surr)	100		80 - 120					08/24/20 14:31	1



# Surrogate Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-173953-1	8-MON-006-002-01	98	97	97	100
480-173953-2	8-MON-006-002-02	100	97	100	99
480-173953-5	8-MON-006-002-05	99	97	99	100
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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (48-120)	NBZ (46-120)	TPHd14 (24-136)
480-173953-1	8-MON-006-002-01	101	95	47
480-173953-2	8-MON-006-002-02	97	95	55
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-006 Little League Sanitary LF

Job ID: 480-173953-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
480-173953-1	8-MON-006-002-01	23
480-173953-2	8-MON-006-002-02	22
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)

Lab Sample ID	Client Sample ID	PFDA (50-150)	PFDaA (50-150)	PFHxA (50-150)	PFUnA (50-150)	PFTDA (50-150)	PFBA (25-150)	PFOA (50-150)	PFOS (50-150)
480-173953-1	8-MON-006-002-01	82	88	76	77	76		97	76
480-173953-1 - DL	8-MON-006-002-01						88		
480-173953-2	8-MON-006-002-02	54	59	70	52	58		77	50
480-173953-2	8-MON-006-002-02						43		
480-173953-3	8-MON-006-002-03	100	101	101	92	88	103	97	93
480-173953-4	8-MON-006-002-04	103	95	110	103	91	80	103	99
LCS 200-158100/2-A	Lab Control Sample	101	90	108	98	90	109	98	98
MB 200-158100/1-A	Method Blank	95	94	108	94	84	110	100	91

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C4PFHA (50-150)	PFNA (50-150)	PFPeA (25-150)	PFOSA (25-150)	PFHxS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (25-150)
480-173953-1	8-MON-006-002-01	90	90	57	62	88	62	71	107
480-173953-1 - DL	8-MON-006-002-01								
480-173953-2	8-MON-006-002-02	74	59	57	47	68	54	53	103
480-173953-2	8-MON-006-002-02								
480-173953-3	8-MON-006-002-03	101	98	95	69	96	90	97	88
480-173953-4	8-MON-006-002-04	106	103	107	78	103	89	79	94
LCS 200-158100/2-A	Lab Control Sample	98	98	104	65	97	93	95	92
MB 200-158100/1-A	Method Blank	98	104	104	57	96	89	82	84

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M282FTS (25-150)
480-173953-1	8-MON-006-002-01	72
480-173953-1 - DL	8-MON-006-002-01	
480-173953-2	8-MON-006-002-02	58
480-173953-2	8-MON-006-002-02	
480-173953-3	8-MON-006-002-03	101
480-173953-4	8-MON-006-002-04	101
LCS 200-158100/2-A	Lab Control Sample	92
MB 200-158100/1-A	Method Blank	97

**Surrogate Legend**

PFDA = 13C2 PFDA

PFDaA = 13C2 PFDaA

PFHxA = 13C2 PFHxA

# Isotope Dilution Summary

Client: Parsons Corporation

Job ID: 480-173953-1

Project/Site: 8-MON-006 Little League Sanitary LF

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

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

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## 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	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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

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# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

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

Lab Sample ID: MB 480-546446/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 546446

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

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 546446

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
1,1,1,1-Trichloroethane	25.0	24.1		ug/L		96	73 - 126
1,1,1,2,2-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-Dichloroethane	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

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# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## 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

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# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

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

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
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

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# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## 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 200-158100/1-A  
**Matrix:** Water  
**Analysis Batch:** 158123

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 158100

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 08:49	08/20/20 21:51	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		20	5.5	ng/L		08/20/20 08:49	08/20/20 21:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		08/20/20 08:49	08/20/20 21:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.49	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorobutanoic acid (PFBA)	ND		2.0	1.0	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorooctanesulfonamide (PFOSA)	ND		10	10	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.81	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluoropentanoic acid (PFPeA)	0.925	J	2.0	0.63	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60	ng/L		08/20/20 08:49	08/20/20 21:51	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.78	ng/L		08/20/20 08:49	08/20/20 21:51	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	95		50 - 150	08/20/20 08:49	08/20/20 21:51	1
13C2 PFDoA	94		50 - 150	08/20/20 08:49	08/20/20 21:51	1
13C2 PFHxA	108		50 - 150	08/20/20 08:49	08/20/20 21:51	1
13C2 PFUnA	94		50 - 150	08/20/20 08:49	08/20/20 21:51	1
13C2 PFTeDA	84		50 - 150	08/20/20 08:49	08/20/20 21:51	1
13C4 PFBA	110		25 - 150	08/20/20 08:49	08/20/20 21:51	1
13C4 PFOA	100		50 - 150	08/20/20 08:49	08/20/20 21:51	1
13C4 PFOS	91		50 - 150	08/20/20 08:49	08/20/20 21:51	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

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

**Lab Sample ID: MB 200-158100/1-A**

**Matrix: Water**

**Analysis Batch: 158123**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 158100**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFHpA	98		50 - 150	08/20/20 08:49	08/20/20 21:51	1
13C5 PFNA	104		50 - 150	08/20/20 08:49	08/20/20 21:51	1
13C5 PFPeA	104		25 - 150	08/20/20 08:49	08/20/20 21:51	1
13C8 FOSA	57		25 - 150	08/20/20 08:49	08/20/20 21:51	1
18O2 PFHxS	96		50 - 150	08/20/20 08:49	08/20/20 21:51	1
d3-NMeFOSAA	89		50 - 150	08/20/20 08:49	08/20/20 21:51	1
d5-NEtFOSAA	82		50 - 150	08/20/20 08:49	08/20/20 21:51	1
M2-6:2 FTS	84		25 - 150	08/20/20 08:49	08/20/20 21:51	1
M2-8:2 FTS	97		25 - 150	08/20/20 08:49	08/20/20 21:51	1

**Lab Sample ID: LCS 200-158100/2-A**

**Matrix: Water**

**Analysis Batch: 158123**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 158100**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	44.4		ng/L		116	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	38.7		ng/L		102	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	36.4		ng/L		91	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	34.8		ng/L		87	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	41.0		ng/L		116	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	43.2		ng/L		108	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	35.7		ng/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	44.5		ng/L		111	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	43.3		ng/L		108	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	42.4		ng/L		111	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	45.7		ng/L		114	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	39.5		ng/L		109	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	42.8		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	40.0	41.3		ng/L		103	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	43.3		ng/L		108	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	40.8		ng/L		110	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	47.1		ng/L		118	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	42.1		ng/L		105	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	46.3		ng/L		116	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	46.2		ng/L		115	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	42.9		ng/L		107	70 - 130

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

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

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	101		50 - 150
13C2 PFDoA	90		50 - 150
13C2 PFHxA	108		50 - 150
13C2 PFUnA	98		50 - 150
13C2 PFTeDA	90		50 - 150
13C4 PFBA	109		25 - 150
13C4 PFOA	98		50 - 150
13C4 PFOS	98		50 - 150
13C4 PFHpA	98		50 - 150
13C5 PFNA	98		50 - 150
13C5 PFPeA	104		25 - 150
13C8 FOSA	65		25 - 150
18O2 PFHxS	97		50 - 150
d3-NMeFOSAA	93		50 - 150
d5-NEtFOSAA	95		50 - 150
M2-6:2 FTS	92		25 - 150
M2-8:2 FTS	92		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		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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
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

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

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

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 MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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 MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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

Eurofins TestAmerica, Buffalo



# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## Method: 300.0 - Anions, Ion Chromatography

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 480-546045/3  
 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 08:44	1

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

Lab Sample ID: LCS 480-546045/4  
 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	1.02		mg/L		102	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

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## 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 CaCO3)

Lab Sample ID: MB 480-546085/3  
 Matrix: Water  
 Analysis Batch: 546085

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			08/20/20 09:25	1

# QC Sample Results

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## Method: SM 2340C - Hardness, Total (mg/l as CaCO3) (Continued)

Lab Sample ID: LCS 480-546085/4  
 Matrix: Water  
 Analysis Batch: 546085

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	236.0		mg/L		98	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

# QC Association Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## GC/MS VOA

### Analysis Batch: 546446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	8260C	
480-173953-2	8-MON-006-002-02	Total/NA	Water	8260C	
480-173953-5	8-MON-006-002-05	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
480-173953-1	8-MON-006-002-01	Total/NA	Water	3510C	
480-173953-2	8-MON-006-002-02	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
480-173953-1	8-MON-006-002-01	Total/NA	Water	8270D SIM ID	545870
480-173953-2	8-MON-006-002-02	Total/NA	Water	8270D SIM ID	545870

### Prep Batch: 546427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	3510C	
480-173953-2	8-MON-006-002-02	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	

### Analysis Batch: 546675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	8270D_LL_PAH	546427
480-173953-2	8-MON-006-002-02	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

## LCMS

### Prep Batch: 158100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	3535	
480-173953-1 - DL	8-MON-006-002-01	Total/NA	Water	3535	
480-173953-2	8-MON-006-002-02	Total/NA	Water	3535	
480-173953-3	8-MON-006-002-03	Total/NA	Water	3535	
480-173953-4	8-MON-006-002-04	Total/NA	Water	3535	
MB 200-158100/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-158100/2-A	Lab Control Sample	Total/NA	Water	3535	

Eurofins TestAmerica, Buffalo

# QC Association Summary

Client: Parsons Corporation  
Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## LCMS

### Analysis Batch: 158123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	537 (modified)	158100
480-173953-2	8-MON-006-002-02	Total/NA	Water	537 (modified)	158100
480-173953-3	8-MON-006-002-03	Total/NA	Water	537 (modified)	158100
480-173953-4	8-MON-006-002-04	Total/NA	Water	537 (modified)	158100
MB 200-158100/1-A	Method Blank	Total/NA	Water	537 (modified)	158100
LCS 200-158100/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	158100

### Analysis Batch: 158157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1 - DL	8-MON-006-002-01	Total/NA	Water	537 (modified)	158100
480-173953-2	8-MON-006-002-02	Total/NA	Water	537 (modified)	158100

## Metals

### Prep Batch: 545977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	3005A	
480-173953-2	8-MON-006-002-02	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
480-173953-1	8-MON-006-002-01	Total/NA	Water	7470A	
480-173953-2	8-MON-006-002-02	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
480-173953-1	8-MON-006-002-01	Total/NA	Water	7470A	546287
480-173953-2	8-MON-006-002-02	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
480-173953-1	8-MON-006-002-01	Total/NA	Water	6010C	545977
480-173953-2	8-MON-006-002-02	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
480-173953-1	8-MON-006-002-01	Total/NA	Water	SM 2540C	
480-173953-2	8-MON-006-002-02	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	

Eurofins TestAmerica, Buffalo

# QC Association Summary

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

## General Chemistry

### Analysis Batch: 546045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	350.1	
480-173953-2	8-MON-006-002-02	Total/NA	Water	350.1	
MB 480-546045/3	Method Blank	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	
LCS 480-546045/4	Lab Control Sample	Total/NA	Water	350.1	

### Analysis Batch: 546073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	9060A	
480-173953-2	8-MON-006-002-02	Total/NA	Water	9060A	
MB 480-546073/4	Method Blank	Total/NA	Water	9060A	
LCS 480-546073/5	Lab Control Sample	Total/NA	Water	9060A	

### Analysis Batch: 546085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	SM 2340C	
480-173953-2	8-MON-006-002-02	Total/NA	Water	SM 2340C	
MB 480-546085/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-546085/4	Lab Control Sample	Total/NA	Water	SM 2340C	

### Analysis Batch: 546405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	SM 2320B	
480-173953-2	8-MON-006-002-02	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
480-173953-1	8-MON-006-002-01	Total/NA	Water	300.0	
480-173953-2	8-MON-006-002-02	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: 546682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173953-1	8-MON-006-002-01	Total/NA	Water	410.4	
480-173953-2	8-MON-006-002-02	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  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-01**

**Lab Sample ID: 480-173953-1**

**Date Collected: 08/18/20 10:15**

**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		4	546446	08/24/20 13:45	CRL	TAL BUF
Total/NA	Prep	3510C			545870	08/19/20 14:47	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		20	546349	08/22/20 17:53	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 09:37	PJQ	TAL BUF
Total/NA	Prep	3535			158100	08/20/20 08:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158123	08/20/20 22:49	BWC	TAL BUR
Total/NA	Prep	3535	DL		158100	08/20/20 08:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)	DL	20	158157	08/21/20 18:23	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 15:39	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 16:08	BMB	TAL BUF
Total/NA	Analysis	300.0		10	546469	08/24/20 14:38	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	546045	08/20/20 08:47	CLT	TAL BUF
Total/NA	Analysis	410.4		1	546682	08/22/20 22:01	CSS	TAL BUF
Total/NA	Analysis	9060A		1	546073	08/20/20 00:54	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	546405	08/21/20 22:57	BEF	TAL BUF
Total/NA	Analysis	SM 2340C		1	546085	08/20/20 09:25	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	545904	08/19/20 16:40	E1T	TAL BUF

**Client Sample ID: 8-MON-006-002-02**

**Lab Sample ID: 480-173953-2**

**Date Collected: 08/18/20 12:15**

**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		4	546446	08/24/20 14:08	CRL	TAL BUF
Total/NA	Prep	3510C			545870	08/19/20 14:47	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	546349	08/22/20 18:16	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 10:05	PJQ	TAL BUF
Total/NA	Prep	3535			158100	08/20/20 08:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158123	08/20/20 22:58	BWC	TAL BUR
Total/NA	Prep	3535			158100	08/20/20 08:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158157	08/21/20 18:31	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 15:43	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 16:09	BMB	TAL BUF
Total/NA	Analysis	300.0		5	546469	08/24/20 14:52	IMZ	TAL BUF
Total/NA	Analysis	350.1		2	546045	08/20/20 10:19	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 01:21	CLA	TAL BUF

Eurofins TestAmerica, Buffalo

# Lab Chronicle

Client: Parsons Corporation  
 Project/Site: 8-MON-006 Little League Sanitary LF

Job ID: 480-173953-1

**Client Sample ID: 8-MON-006-002-02**

**Lab Sample ID: 480-173953-2**

Date Collected: 08/18/20 12:15

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	SM 2320B		1	546405	08/21/20 23:09	BEF	TAL BUF
Total/NA	Analysis	SM 2340C		1	546085	08/20/20 09:25	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	545904	08/19/20 16:40	E1T	TAL BUF

**Client Sample ID: 8-MON-006-002-03**

**Lab Sample ID: 480-173953-3**

Date Collected: 08/18/20 12:35

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	Prep	3535			158100	08/20/20 08:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158123	08/20/20 23:06	BWC	TAL BUR

**Client Sample ID: 8-MON-006-002-04**

**Lab Sample ID: 480-173953-4**

Date Collected: 08/18/20 12:40

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			158100	08/20/20 08:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	158123	08/20/20 23:14	BWC	TAL BUR

**Client Sample ID: 8-MON-006-002-05**

**Lab Sample ID: 480-173953-5**

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 14:31	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-006 Little League Sanitary LF

Job ID: 480-173953-1

## 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 CaCO <sub>3</sub>

## 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-006 Little League Sanitary LF

Job ID: 480-173953-1

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 CaCO <sub>3</sub> )	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-006 Little League Sanitary LF

Job ID: 480-173953-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-173953-1	8-MON-006-002-01	Water	08/18/20 10:15	08/19/20 08:00	
480-173953-2	8-MON-006-002-02	Water	08/18/20 12:15	08/19/20 08:00	
480-173953-3	8-MON-006-002-03	Water	08/18/20 12:35	08/19/20 08:00	
480-173953-4	8-MON-006-002-04	Water	08/18/20 12:40	08/19/20 08:00	
480-173953-5	8-MON-006-002-05	Water	08/18/20 00:00	08/19/20 08:00	

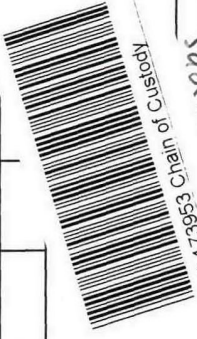
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### CHAIN-OF-CUSTODY / Analytical Request Document

<b>Section A Laboratory Information</b>				<b>Section B Client Information</b>				<b>COC #:</b>	
Lab Name: TestAmerica		Company: Parsons		Project Name: ILI - Region 8		Project Site: Little League LF		Project Number: 450619 452148 AKS	
Attention: John Schove		Attention: George Moreau		Address: 301 Plainfield Road, Suite 350 Syracuse, NY 13212		Phone: 315-552-9715		Preservative codes (for water only):	
Address: Amherst, NY 14228-2298		Address: Syracuse, NY 13212		Email: George.H.Moreau@parsons.com		Purchase Order No:		0 1 0 0 2 2 3 1 0 0 2	
Phone: (716) 504-9838		Phone: 315-552-9715		TAT - 10 Day					
Email: John.Schove@testamericainc.com		Email: George.H.Moreau@parsons.com		<b>Section D Additional Information</b>					
<b>Section C Deliverable Requirements</b>				<b>Section D Additional Information</b>					
Report To: George.H.Moreau@parsons.com		Report To: George.H.Moreau@parsons.com		Sample Date		Sample Time		Sample Matrix	
Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com		Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com; Maryanne.Kosciewicz@parsons.com; Heather.Fetrig@parsons.com		Field Sample ID <b>MUST BE UNIQUE</b>		Sample Type		# of Cont.	
Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD				End Depth (ft)		Sample Date		Sample Time	
Start Depth (ft)		End Depth (ft)		Field Sample ID <b>MUST BE UNIQUE</b>		Sample Type		# of Cont.	
1 8-MON-006-MW-01 8		18 8-MON-006-002-01		8/18/20 10:15		WG		N 17	
2 8-MON-006-MW-02 8		13 8-MON-006-002-02		8/18/20 12:15		WG		N 17	
3 Field QC		- 8-MON-006-002-03		8/18/20 12:35		WQ		FB 2	
4 Field QC		- 8-MON-006-002-04		8/18/20 12:40		WQ		FB 2	
5 Field QC		- 8-MON-006-002-05		8/18/20		WQ		TB 1	
6									
7									
8 8-18-20									
9									
10									

Syracuse  
#225



Requisitioned By: *ASW*  
 Date/Time: 08/18/20 12:45  
 Company: Parsons  
 Shipment Tracking No:  
 Date/Time: 08/18/20 17:45  
 Accepted By: *ASW*  
 Date/Time: 08/18/20 17:45  
 Company: Parsons  
 Date/Time: 08/18/20 17:45

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = HNO3]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; [8 = Other (H3PO4)];  
 Reeling: R-Engl. 1.6, by 4, 8/18/20, 1900  
 Rec'd @ *ASW* TAB 8/19/20/0800 3.1" #1





**CHAIN-OF-CUSTODY / Analytical Request Document**

**Section A Laboratory Information**  
 Lab Name: TestAmerica  
 Attention: John Schove  
 10 Hazelwood Drive  
 Amherst, NY 14228-2298  
 Phone: (716) 504-9838  
 Email: John.Schove@testamericainc.com

**Section B Client Information**  
 Company: Parsons  
 Attention: George Moreau  
 301 Plainfield Road, Suite 350  
 Syracuse, NY 13212  
 Phone: 315-552-9715  
 Email: George.H.Moreau@parsons.com  
 Purchase Order No: TAT - 10 Day

**Section C Deliverable Requirements**  
 Report To: George.H.Moreau@parsons.com  
 Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com  
 Maryanne.Kosciwicz@parsons.com; Heather.Fettig@parsons.com  
 Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD

**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	
									#Bottles	
1 8-MON-006-MW-01	8	18	8-MON-006-002-01	8/18/20	10:15	WG	N	17	1	1
2 8-MON-006-MW-02	8	13	8-MON-006-002-02	8/18/20	12:15	WG	N	17	1	1
3 Field QC	-	-	8-MON-006-002-03	8/18/20	12:35	WQ	EB	2	1	1
4 Field QC	-	-	8-MON-006-002-04	8/18/20	12:40	WQ	FB	2	1	1
5 Field QC	-	-	8-MON-006-002-05	8/18/20	-	WQ	TB	1	1	1
6										
7										
8 8-18-20										
9										
10										

Preservative codes (for water only):	Analytical Parameters										
	0	1	2	3	4	5	6	7	8	9	10
Modified Baseline VOCs 8260	2	3	2	2	1	1	1	1	1	1	1
PFAS Modified 537	2	3	2	2	1	1	1	1	1	1	1
Composite (Y/N)											
Alkalinity SM20 2320B											
TDS SM2540D											
SO4/CHL/BRO 300.0											
TOC 9060A											
Ammonia/COD 350.1/410.4											
Hard-SM20 2340C											
Mod Bsn Met/Hg 6010/7470											
1, 4 - Dioxane 8270SIM											
PAHs 8270SIM											
Dissolved Mod Metals/Hg 6010/7470											

**Syracuse #225**

**Special Instructions:**  
 From Sya: PFA1 → But. bin / → AUE, -RE  
 Aditya Singh  
 8-18-20  
 RE

**Relinquished By:** [Signature]  
**Accepted By:** [Signature]  
**Company:** Parsons  
**Date/Time:** 08/18/20 17:45  
**Company:** ESTS INC  
**Date/Time:** 8/18/20 17:45

**Shipment Tracking No:**  
**Date/Time:**

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

Kelling: R-Eng h.l.w. 8/24, 8/18/20, 1800  
 BIA 2020 10/25



Environment Testing  
TestAmerica

Part # 159469-034 R112 EXP 08/19

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

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

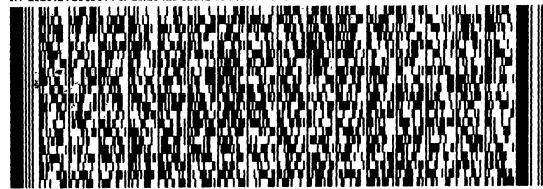
SYRACUSE, NY 13211  
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE SUITE 11**

**SOUTH BURLINGTON VT 05403**

(802) 880-1990  
REF: PARSONS PFAS 1 COOLER



565C277087/0562

TRK# 1870 7198 3042  
0201

WED - 19 AUG 10:30A  
PRIORITY OVERNIGHT

**NL BTVA**

05403  
VT-US BTV



## Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-173953-1

**Login Number: 173953**

**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	3.1 #1 ICE
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: 480-173953-1

**Login Number: 173953**

**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	1313185
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	0.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	