

NC Division of Water Resources
Water Science Section

April 1, 2019

Memorandum

To: Linda Culpepper – Water Resources Director

CC: Jim Gregson

From: Taryn Davis

Through: Eric Morris

Subject: Identification of Select Emerging Compounds in Falls of the Neuse Reservoir and Surrounding Watershed.

Purpose: The objective of this reconnaissance study is to provide the NC Division of Water Resources information of the presence and concentration of select emerging compounds (ECs) including per- and polyfluoroalkyl substances (PFAS); 1,4-dioxane; and bromide in untreated surface waters of Falls Lake and the surrounding watershed.

Identification of Select Emerging Compounds in Falls of the Neuse Reservoir and Surrounding Watershed

Upper Neuse River Basin

HUC: 03020201

North Carolina Department of Environmental Quality

Division of Water Resources

Water Sciences Section

Intensive Survey Branch

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Division of Water Resources

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Introduction

At the request of the North Carolina Division of Water Resources (DWR or Division), the Intensive Survey Branch (ISB) conducted a special study to characterize the presence and concentration of select emerging compounds (EC) in the surface waters of Falls of Neuse Reservoir (Falls Lake) and its immediate watershed. From July to December 2018 (excluding September), staff from the Division collected samples for 1,4-dioxane, bromide, and 23 different per- and polyfluoroalkyl substances (PFAS) at five in-lake locations and five tributary locations. Analytical results indicated minimal presence of 1,4-dioxane and two PFAS compounds over the course of the sampling period. No bromide was detected.

Background

Falls of the Neuse Reservoir (Falls Lake) is a multipurpose impoundment of the Neuse River located in the Upper Neuse River basin. The reservoir is the primary water supply for the City of Raleigh and surrounding towns in Wake County, and is used for a variety of additional purposes including flood control and public recreation¹. Three major wastewater treatment plants (WWTP), defined as those discharging over one million gallons per day (MGD), and eight minor WWTPs discharge their effluent into the Falls Lake watershed. Falls Lake Dam was constructed in 1981 by the US Army Corps of Engineers (ACOE) and the reservoir began filling in 1983². Falls Lake is located on the headwaters of the Neuse River, which is formed by the confluence of the Eno and Flat Rivers in Durham County. Other tributaries include the Little River, and Knap of Reeds, Ellerbe, Ledge, Lick, Little Lick, and Beaverdam Creeks. The watershed of this lake contains a mixture of urban, residential, agricultural and forested areas. The shoreline remains undeveloped; the majority being forested. Algal blooms and eutrophic conditions have been present in the lake since its impoundment. Falls Lake was listed on North Carolina's 2008 303(d) List of Impaired Waters as impaired for chlorophyll *a*. The portion of the lake upstream of I-85 was also listed as impaired for turbidity³.

The general heightened awareness of emerging compounds in NC due to recent downstream discharges of "GenX" into the Cape Fear River prompted the Division to investigate the presence and distribution of these chemicals in other major sources of drinking water. Current allocations

for drinking water withdrawals from Falls Lake are owned solely by the City of Raleigh, and treated at the E.M. Johnson water treatment plant (WTP) with a maximum capacity of 86 MGD and a daily average of 47 MGD⁹. It is important to note that all analytical data presented in this document reflect levels of target analytes detected in untreated surface waters as opposed to finished drinking water.

The synthetic industrial compound 1,4-dioxane is completely miscible in water. It is persistent in the environment and is difficult to remove through standard water and wastewater processes¹¹. It is used as an industrial solvent and also formed as a byproduct of some industrial processes. The compound has been characterized as “likely to be carcinogenic to humans” and is identified in the Third Unregulated Contaminant Monitoring Rule (UCMR) as a potential compound of concern in public drinking water by the United States Environmental Protection Agency (USEPA)¹⁰. The 1,4-dioxane NC Protective Value for Surface Waters Fresh Water, Water Supply (Class WS I-IV) is 0.35 µg/L⁶. Please note that North Carolina protective values are health-based guidelines, not regulatory limits, and may be based on limited toxicological information.

PFAS are man-made fluorinated organic compounds that are used in various consumer products including non-stick cookware, water-repellent clothing, stain resistant fabrics, cosmetics, food packaging materials, and fire-retardant foams. Although 23 PFAS compounds were the focus of this study, thousands of PFAS compounds exist. Of these compounds, PFOA and PFOS have been the most extensively produced and studied. The USEPA has stated that exposure to PFAS can lead to adverse health effects in humans¹². Though many companies have significantly decreased or ceased to use of PFOA and PFOS in manufacturing, other PFAS compounds are currently being used as replacements. The USEPA established health advisory level for PFOA, PFOS, or combined PFOA and PFOS is 70 ppt (ng/L)⁷ in finished drinking water. Health advisory levels identify the concentration of a compound in drinking water at which adverse health effects in the most sensitive populations are not anticipated to occur over specific exposure durations. A health advisory value is not a legally enforceable federal standard and is subject to change as additional information becomes available. The 23 PFAS compounds selected for this study are abbreviated throughout the document but the full chemical names and CASRNs are identified in Appendix 1.

Bromide (Br-) has no current established health advisory levels or guidelines due to its high human toxicity threshold and ecotoxicity observed only at high concentrations. Thus, the discharge of bromide has been left largely unregulated. While naturally occurring bromide poses low risk to humans, man-made brominated organic compounds can exhibit ecotoxicity when ingested. Incidental production of brominated organic compounds can occur in treating drinking water and persist in the finished water⁸. These brominated disinfection by-products (DBP) form when source waters contain bromide and are disinfected with chemical oxidants (e.g., chlorine, ozone). The Br-DBPs of concern are the bromine containing trihalomethanes (THMs) resulting from chlorine disinfection: bromodichloromethane (CHCl₂Br), dibromochloromethane

(CHClBr₂), and bromoform (CHBr₃). These compounds are formed when hypochlorous (HClO) acid oxidizes the bromide ions present in water to form hypobromous acid (HBrO), which subsequently reacts with organic material to form the Br-THMs.

Bromide, PFAS, and 1,4-dioxane were selected as compounds of interest for this study in response to the rising interest in the public health effects of consumption of these compounds in drinking water sources. Table 1 lists the monitoring stations and their corresponding geographic coordinates. Figure 1 provides a map of the Falls Lake monitoring stations.

Station ID	Station Description	Latitude	Longitude
NEU013	FALLS LAKE AT I-85 NEAR NORTHSIDE	36.07053	-78.77907
NEU0171B	FALLS LAKE AT MOUTH OF LITTLE LICK CREEK	36.01799	-78.73492
NEU018E	FALLS LAKE AT MOUTH OF LEDGE CREEK NR CREEDMOOR	36.01494	-78.70696
NEU019L	FALLS LAKE AT CHANNEL MARKER #6 NEAR BAYLEAF NC	36.00507	-78.64668
NEU020D	FALLS LAKE AT MARKER #1 NEAR BAYLEAF NC	35.95591	-78.58444
J0810000	ENO RIV AT SR 1004 NR DURHAM	36.07254	-78.86270
J1100000	FLAT RIV AT SR 1004 NR WILLARDSVILLE	36.13186	-78.82780
J1210000	KNAP OF REEDS CRK AT WWTP OUTFALL NR BUTNER	36.12797	-78.79852
J1330000	ELLERBE CRK AT SR 1636 NR DURHAM	36.05949	-78.83224
J1890000	NEUSE RIVER AT SR 2000 NR FALLS	35.94077	-78.58010

Table 1. Station ID, station description, and coordinates of sampled sites.

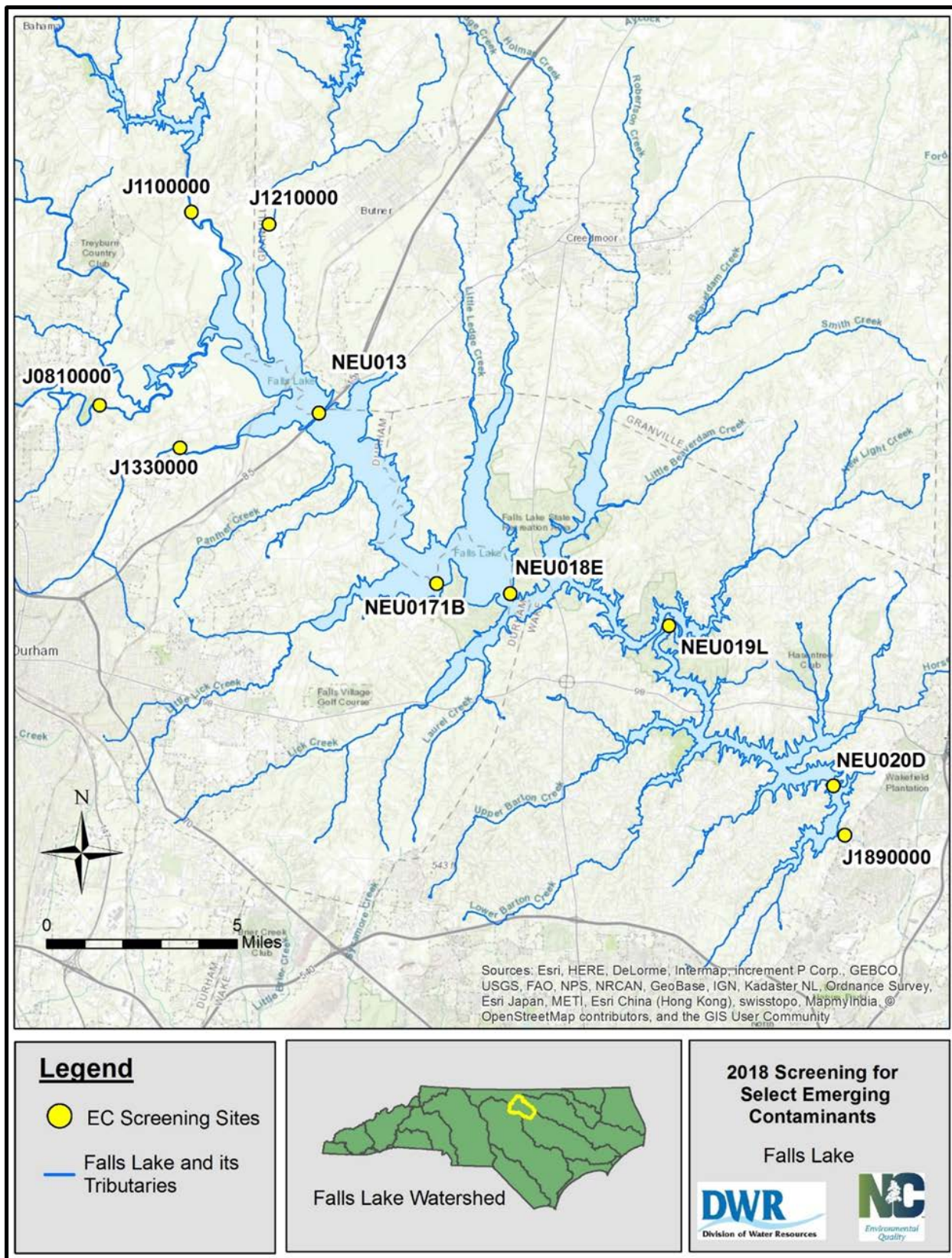


Figure 1. Falls Lake EC monitoring locations.

Methods

The selected sites (Figure 1) are located within Falls Lake and its watershed to provide water quality data in areas of Falls Lake that receive inflow from surface waters with permitted municipal NPDES facilities that have discharges greater than one million gallons per day. Five existing in-lake sites sampled as part of legislatively mandated monitoring, and five Ambient Monitoring System (AMS) watershed sites were sampled as part of this study. Site visits were conducted once per month from July through December 2018, with the exception of September when flooding from Hurricane Florence made the lake inaccessible.

Physical parameters were collected at the surface (0.15 m) using an In-Situ SmarTROLL multiparameter hydrosonde. Chemical parameters were collected as grab samples at a depth of 0.15 meters. Samples were collected in accordance with ISB's *Standard Operating Procedures Manual: Physical and Chemical Monitoring v2.1, Dec. 2013*⁴, and *Ambient Lakes Quality Assurance Project Plan v2.0, March 2014*⁵. Due to the unique characteristics of PFAS and their relative novelty to sampling protocols, sampling methodology was drawn from various draft sources with additional guidance from USEPA Science and Ecosystem Support Division (SESD). Bromide and 1,4-dioxane samples were analyzed by the DWR Central Laboratory in Raleigh, NC. PFAS samples were analyzed by USEPA's SESD in Athens, GA. Appropriate QA/QC samples were collected during each sampling event including trip blanks, duplicates, matrix spikes and matrix spike duplicates, and equipment blanks. All samples were maintained under chain of custody from the time of collection to the time of analysis. PFAS-free field clothing, equipment, and personal care products (e.g. sunscreen) were utilized wherever practical to avoid cross-contamination of water samples. Chemical and physical parameters collected are shown in Table 2.

Physical Parameters	Chemical Parameters (ng/L unless otherwise noted)		
Temperature (°C)	4:2FTS	PFDA	PFNS
pH (s.u.)	6:2FTS	PFDoA	PFOA
Dissolved Oxygen (mg/L)	8:2FTS	PFDS	PFOS
Conductivity (µS/cm)	FOSA	PFHpA	PFPeA
Secchi Depth (m)	HFPO-DA	PFHpS	PFPeS
	N-MeFOSAA	PFHxA	PFTrDA
	PFBA	PFHxS	PFUdA
	PFBS	PFNA	1,4-Dioxane (µg/L)
			Bromide (mg/L)

Table 2. Summary of physical and chemical parameters collected. See Appendix 1 for a detailed list of PFAS chemical parameters.

Results

Physical Results

Physical water quality conditions remained within North Carolina 15A NCAC 02B Water Quality Standards for Surface Waters standards throughout the duration of the study. Secchi depth was not measured at the five AMS watershed sites. See Table 3 for complete list of ranges of values for each physical parameter for all monitored sites.

Parameter/Site	NEU013	NEU0171B	NEU018E	NEU019L	NEU020D	J0810000	J1100000	J1210000	J1330000	J1890000
Temp (°C)	7.1-31.0	6.5-31.9	6.5-30.2	7.8-30.7	8.6-31.0	7.9-26.9	6.1-29.4	7.4-26.9	11.3-27.2	7.9-28.9
pH (s.u.)	6.8-8.0	6.9-8.6	6.3-8.1	6.4-7.3	6.6-7.2	7.0-7.6	6.9-7.4	6.7-7.4	6.9-7.6	6.8-7.2
D.O. (mg/L)	7.3-11.2	8.5-11.4	8.2-10.9	6.3-9.8	5.3-9.0	6.5-12.4	4.9-13.3	5.3-11.8	6.6-10.2	6.8-12.1
Conductivity (µS/cm)	0-109	48-107	55-102	56-92	59-88	74-125	44-79	63-470	274-444	64-96
Secchi Depth (m)	0.2-0.3	0.2-0.6	0.2-0.7	0.2-1.1	0.2-1.5	--	--	--	--	--

Table 3. Physical parameter ranges for monitored sites; --Secchi depth not measured.

Chemical Results

Laboratory analysis for bromide was conducted by the DWR Central Laboratory in Raleigh. No returned values above the practical quantitation limit (PQL) of 0.4 µg/L were reported at any site throughout the duration of the study. NCDWR defines the PQL as the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Analysis for 1,4-dioxane was also conducted by DWR at the Central Laboratory in Raleigh. Positive returns for 1,4-dioxane above the NC Protective Value for Surface Waters of 0.35 µg/L occurred once; with a detection of 1 µg/L of 1,4-dioxane at site NEU018E on 8/16/18 as shown below in Table 4. As noted earlier, NC Protective Values may be based on limited toxicological information and are offered as guidelines only.

PFAS analysis was conducted by USEPA's SEDS in Athens, GA. Of the 23 PFAS compounds selected for this study only two compounds, PFPeA and PFOS were found at or above the minimum reporting limit (MRL) on at least one occasion. USEPA defines the MRL as the analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample specific and accounts for preparation weights, volumes, and dilutions. MRL values for PFAS analytes ranged from 17-160 ng/L during this study. PFPeA was detected at site J1210000 on 7/26/2018 at a concentration of 57ng/L. PFOS was detected 11/29/2018 at a concentration of 46 ng/L. Values of detected compounds and the associated detection dates for sites with compounds above the MRL are listed in Table 4.

Station ID/ Analyte	NEU018E	J1210000
PFPeA		7/26/2018 57 ng/L
PFOS		11/29/2018 46 ng/L
1,4-Dioxane	8/16/2018 1 µg/L	

Table 4. Values of detected compounds and detection date for sites with values above PQLs.

Summary:

Evaluation of physical and chemical results from this study suggest that while there are elevated levels of target analytes at some sites, additional long-term monitoring would need to be conducted to evaluate persistence of these compounds and their associated effects on Falls Lake as a drinking water source. Site J1210000 was the only site to exhibit detectable concentrations of target PFAS analytes, while site NEU018E was the only site to exhibit detectable concentrations of 1,4-dioxane. Precipitation events were not specifically targeted during this study, and no relationship between storm flows and presence or concentration of target analytes was evaluated. As noted earlier, all analytical data presented in this document reflect levels of target analytes detected in untreated surface waters, and do not represent contaminant concentrations in finished drinking water sourced from Falls Lake.

For further questions regarding this or other studies, please contact Eric Morris, Intensive Survey Branch Supervisor, directly at (919) 743-8496 or eric.morris@ncdenr.gov.

References:

¹Intensive Survey Unit. 2014. Lake & Reservoir Assessments Cape Fear River Basin. <https://files.nc.gov/ncdeq/Water%20Quality/Environmental%20Sciences/Reports/CapeFearRLakesAssessments2013.pdf>

²Intensive Survey Unit. 2016. Study Plan for the Ongoing Assessment of Falls of the Neuse Reservoir. https://files.nc.gov/ncdeq/Water%20Quality/Environmental%20Sciences/ISU/FINAL_Study_Plan_For_Ongoing_Assessment_of_Falls_Lake_2010-ver3A_NEU018C%20added.pdf

³NCDEQ. 2008. North Carolina Integrated Report Categories 4 and 5 (Impaired Waters List). <https://files.nc.gov/ncdeq/Water%20Quality/Planning/TMDL/303d/final2008IRcat45%20%282%29%203.17.10.pdf>

⁴DWR-WSS. 2013. *Intensive Survey Branch Standard Operating Procedures Manual: Physical and Chemical Monitoring*. Raleigh: State of North Carolina. <https://files.nc.gov/ncdeq/Water%20Quality/Environmental%20Sciences/ISU/ISB%20SOP%20Version2.1%20%20FINAL.pdf>

⁵NCDEQ. 2014. *Ambient Lakes Monitoring Program (ALMP) Quality Assurance Project Plan v2.0*. <https://files.nc.gov/ncdeq/Water%20Quality/Environmental%20Sciences/ISU/2014LakesAll.pdf>

⁶NCDWR. 2017. *NC Surface Water Quality Standards Table*. <https://deq.nc.gov/about/divisions/water-resources/planning/classification-standards/surface-water-standards#TriennialReviewInfo>

⁷USEPA. 2016. *Fact Sheet: PFOA & PFOS Drinking Water Health Advisories*. <https://www.epa.gov/ground-water-and-drinking-water/supporting-documents-drinking-water-health-advisories-pfoa-and-pfos>

⁸Good, K.D., VanBriesen, J.M. 2017. *Potential Drinking Water Effects of Bromide Discharges from Coal-Fired Electric Power Plants*. <https://www3.epa.gov/region1/npdes/merrimackstation/pdfs/Comments2RevisedDraftPermit/VanBriesenReport.pdf>

⁹City of Raleigh. 2018. *Water and Wastewater Treatment Plants: E.M. Johnson Water Treatment Plant*. <https://www.raleighnc.gov/services/content/PubUtilAdmin/Articles/TreatmentPlants.html>

¹⁰USEPA. 2012. *The Third Unregulated Contaminant Monitoring Rule*. https://www.epa.gov/sites/production/files/2015-10/documents/ucmr3_factsheet_general.pdf

¹¹USEPA. 2017. *Technical Fact Sheet – 1,4-Dioxane*. https://www.epa.gov/sites/production/files/2014-03/documents/ffrro_factsheet_contaminant_14-dioxane_january2014_final.pdf

¹²USEPA. 2018. *Basic Information on PFAS*. <https://www.epa.gov/pfas/basic-information-pfas#health>

CASRN	Abbreviation	Chemical Name
72629-94-8	PFTTrDA	Perfluoro-n-tridecanoic acid
307-55-1	PFDoA	Perfluoro-n-dodecanoic acid
2058-94-8	PFUdA	Perfluoro-n-undecanoic acid
335-76-2	PFDA	Perfluoro-n-decanoic acid
375-95-1	PFNA	Perfluoro-n-nonanoic acid
335-67-1	PFOA	Perfluoro-n-octanoic acid
375-85-9	PFHpA	Perfluoro-n-heptanoic acid
307-24-4	PFHxA	Perfluoro-n-hexanoic acid
2706-90-3	PFPeA	Perfluoro-n-pentanoic acid
375-22-4	PFBA	Perfluoro-n-butanoic acid
335-77-3	PFDS	Perfluoro-n-decanesulfonate
68259-12-1	PFNS	Perfluoro-n-nonanesulfonate
1763-23-1	PFOS	Perfluoro-n-octanesulfonate
375-92-8	PFHpS	Perfluoro-n-heptanesulfonate
355-46-4	PFHxS	Perfluoro-n-hexanesulfonate
2706-91-4	PFPeS	Perfluoro-n-pentansulfonate
375-73-5	PFBS	Perfluoro-n-butanesulfonate
754-91-6	FOSA	Perfluoro-n-octanesulfonamide
39108-34-4	8:2 FTS	8:2 Fluorotelomer sulfonate
27619-97-2	6:2 FTS	6:2 Fluorotelomer sulfonate
757124-72-4	4:2 FTS	4:2 Fluorotelomer sulfonate
2355-31-9	N-MeFOSAA	N-methylperfluoro-1-octanesulfonamidoacetic acid
13252-13-6	HFPO-DA ¹	Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)
¹ The anion of the ammonium salt known as "GenX"		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

August 29, 2018

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
 Project: 18-0553, Falls Lake PFAS
 Drinking Water

FROM: Floyd Wellborn
 ASB Organic Chemistry Section Chief

THRU: Danny France, Chief
 Analytical Support Branch

TO: Floyd Wellborn

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Semi Volatile Organics (SVOA)

PFAS

ASBPROC-800 PFAS (Water)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Sample Disposal Policy

Due to limited space for long term sample storage, ASB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 18-0033
Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

SAMPLES INCLUDED IN THIS REPORT

Project: 18-0553, Falls Lake PFAS

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
J189 Nuese River @ SR 2000	E183102-01	Water	7/26/18 08:25	7/31/18 10:25
J11 Flat River @ SR1004	E183102-02	Water	7/26/18 11:05	7/31/18 10:25
J121 Knap of Reeds @ WWTP	E183102-03	Water	7/26/18 11:50	7/31/18 10:25
J121 DUP Knap of Reeds @ WWTP	E183102-04	Water	7/26/18 11:55	7/31/18 10:25
J081 End of River @ SR1004	E183102-05	Water	7/26/18 12:40	7/31/18 10:25
J133 Ellerbe Crk @ SR 1636	E183102-06	Water	7/26/18 13:20	7/31/18 10:25
Trip Blank	E183102-07	Trip Blank - Water	7/26/18 07:45	7/31/18 10:25
NEU013 Falls Lake @ 1-85 near Northside N	E183102-08	Water	7/26/18 14:00	7/31/18 10:25
DUP NEU013 Falls Lake @ 1-85 near Northsi	E183102-09	Water	7/26/18 14:00	7/31/18 10:25
NEU0171B Falls Lake @ Mth Little Lick Ck	E183102-10	Water	7/26/18 13:10	7/31/18 10:25
NEU018E Falls Lake @ Mouth Ledge Ck Nr	E183102-11	Water	7/26/18 12:05	7/31/18 10:25
NEU019L Falls Lake @ Channel Marker #6 N	E183102-12	Water	7/26/18 10:30	7/31/18 10:25
NEU020D Falls Lake @ Marker #1 Near Bayl	E183102-13	Water	7/26/18 09:25	7/31/18 10:25
MSD NEU020D Falls Lake @ Marker #1 Nea	E183102-14	Water	7/26/18 09:25	7/31/18 10:25
Trip Blank (2)	E183102-15	Trip Blank - Water	7/26/18 09:00	7/31/18 10:25



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 18-0033
Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Q-2 Result greater than MDL but less than MRL.
- QM-1 Matrix Spike Recovery less than method control limits
- QM-3 Matrix Spike Precision outside method control limits
- OS-3 Surrogate recovery is lower than established control limits.

ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

- ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>
- NR The EPA Region 4 Laboratory has not requested accreditation for this test.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J189 Nuese River @ SR 2000

Lab ID: E183102-01

Station ID: J189

Matrix: Water

Date Collected: 7/26/18 8:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U	ng/L	80	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
335-76-2	PFDA	80	U	ng/L	80	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J189 Nuese River @ SR 2000

Lab ID: E183102-01

Station ID: J189

Matrix: Water

Date Collected: 7/26/18 8:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	8/20/18 6:49	8/24/18 19:47	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J11 Flat River @ SR1004

Lab ID: E183102-02

Station ID: J11

Matrix: Water

Date Collected: 7/26/18 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	81	U	ng/L	81	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
335-76-2	PFDA	81	U	ng/L	81	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J11 Flat River @ SR1004

Lab ID: E183102-02

Station ID: J11

Matrix: Water

Date Collected: 7/26/18 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:08	ASBPROC-800 PFAS



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Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J121 Knap of Reeds @ WWTP

Lab ID: E183102-03

Station ID: J121

Matrix: Water

Date Collected: 7/26/18 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	79	U	ng/L	79	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
335-76-2	PFDA	79	U	ng/L	79	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
1763-23-1	PFOS	17	J, Q-2	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
2706-90-3	PFPeA	57		ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J121 Knap of Reeds @ WWTP

Lab ID: E183102-03

Station ID: J121

Matrix: Water

Date Collected: 7/26/18 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	8/20/18 6:49	8/24/18 20:28	ASBPROC-800 PFAS



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Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J121 DUP Knap of Reeds @ WWTP

Lab ID: E183102-04

Station ID: J121

Matrix: Water

Date Collected: 7/26/18 11:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	78	U	ng/L	78	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
335-76-2	PFDA	78	U	ng/L	78	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
2706-90-3	PFPeA	65		ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J121 DUP Knap of Reeds @ WWTP

Lab ID: E183102-04

Station ID: J121

Matrix: Water

Date Collected: 7/26/18 11:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	8/20/18 6:49	8/24/18 20:49	ASBPROC-800 PFAS



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Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J081 End of River @ SR1004

Lab ID: E183102-05

Station ID: J081

Matrix: Water

Date Collected: 7/26/18 12:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U	ng/L	80	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
335-76-2	PFDA	80	U	ng/L	80	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J081 End of River @ SR1004

Lab ID: E183102-05

Station ID: J081

Matrix: Water

Date Collected: 7/26/18 12:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:09	ASBPROC-800 PFAS



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Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J133 Ellerbe Crk @ SR 1636

Lab ID: E183102-06

Station ID: J133

Matrix: Water

Date Collected: 7/26/18 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U	ng/L	80	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
335-76-2	PFDA	80	U	ng/L	80	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: J133 Ellerbe Crk @ SR 1636

Lab ID: E183102-06

Station ID: J133

Matrix: Water

Date Collected: 7/26/18 13:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:30	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E183102-07

Station ID:

Matrix: Trip Blank - Water

Date Collected: 7/26/18 7:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U, J, QS-3	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U	ng/L	80	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
335-76-2	PFDA	80	U	ng/L	80	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
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 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E183102-07

Station ID:

Matrix: Trip Blank - Water

Date Collected: 7/26/18 7:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	8/20/18 6:49	8/24/18 21:50	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU013 Falls Lake @ 1-85 near Northside NC Lab ID: E183102-08

Station ID: NEU013

Matrix: Water

Date Collected: 7/26/18 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	78	U	ng/L	78	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
335-76-2	PFDA	78	U	ng/L	78	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU013 Falls Lake @ 1-85 near Northside NC Lab ID: E183102-08

Station ID: NEU013

Matrix: Water

Date Collected: 7/26/18 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:11	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake @ 1-85 near Northsid Lab ID: E183102-09

Station ID: NEU013

Matrix: Water

Date Collected: 7/26/18 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	78	U	ng/L	78	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
335-76-2	PFDA	78	U	ng/L	78	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake @ 1-85 near Northsid Lab ID: E183102-09

Station ID: NEU013

Matrix: Water

Date Collected: 7/26/18 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	8/20/18 6:49	8/24/18 22:31	ASBPROC-800 PFAS



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake @ Mth Little Lick Ck N Lab ID: E183102-10

Station ID: NEU017B

Matrix: Water

Date Collected: 7/26/18 13:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
39108-34-4	8:2FTS	41	U, J, QS-3	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	81	U	ng/L	81	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
335-76-2	PFDA	81	U	ng/L	81	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake @ Mth Little Lick Ck N Lab ID: E183102-10

Station ID: NEU017B

Matrix: Water

Date Collected: 7/26/18 13:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	8/20/18 6:49	8/24/18 22:51	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

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Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Ck Nr C Lab ID: E183102-11

Station ID: NEU018E

Matrix: Water

Date Collected: 7/26/18 12:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	79	U	ng/L	79	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
335-76-2	PFDA	79	U	ng/L	79	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Ck Nr C Lab ID: E183102-11

Station ID: NEU018E

Matrix: Water

Date Collected: 7/26/18 12:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:12	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU019L Falls Lake @ Channel Marker #6 N Lab ID: E183102-12

Station ID: NEU019L

Matrix: Water

Date Collected: 7/26/18 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U, J, QS-3	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U	ng/L	80	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
335-76-2	PFDA	80	U	ng/L	80	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU019L Falls Lake @ Channel Marker #6 N Lab ID: E183102-12

Station ID: NEU019L

Matrix: Water

Date Collected: 7/26/18 10:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	8/20/18 6:49	8/24/18 23:32	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU020D Falls Lake @ Marker #1 Near Bayle Lab ID: E183102-13

Station ID: NEU020D

Matrix: Water

Date Collected: 7/26/18 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U, J, QS-3	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	79	U	ng/L	79	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
335-76-2	PFDA	79	U, J, QS-3	ng/L	79	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: NEU020D Falls Lake @ Marker #1 Near Bayle Lab ID: E183102-13

Station ID: NEU020D

Matrix: Water

Date Collected: 7/26/18 9:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	8/20/18 6:49	8/24/18 23:53	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake @ Marker #1 Near Lab ID: E183102-14

Station ID: NEU020D

Matrix: Water

Date Collected: 7/26/18 9:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
39108-34-4	8:2FTS	38	U, J, QM-3	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
754-91-6	FOSA	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	38	U, J, QM-1	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	76	U, J, QM-3	ng/L	76	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
375-22-4	PFBA	150	U, J, QM-3	ng/L	150	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
375-73-5	PFBS	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
335-76-2	PFDA	76	U, J, QM-3	ng/L	76	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
307-55-1	PFDoA	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
335-77-3	PFDS	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
375-85-9	PFHpA	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
375-92-8	PFHpS	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
307-24-4	PFHxA	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
355-46-4	PFHxS	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
375-95-1	PFNA	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
68259-12-1	PFNS	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
335-67-1	PFOA	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
1763-23-1	PFOS	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
2706-90-3	PFPeA	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake @ Marker #1 Near Lab ID: E183102-14

Station ID: NEU020D

Matrix: Water

Date Collected: 7/26/18 9:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS
2058-94-8	PFUdA	38	U	ng/L	38	8/20/18 6:49	8/25/18 0:13	ASBPROC-800 PFAS



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: Trip Blank (2)

Lab ID: E183102-15

Station ID:

Matrix: Trip Blank - Water

Date Collected: 7/26/18 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U, J, QS-3	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	79	U	ng/L	79	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
375-22-4	PFBA	160	U	ng/L	160	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
335-76-2	PFDA	79	U	ng/L	79	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
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 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0553, Falls Lake PFAS

Sample ID: Trip Blank (2)

Lab ID: E183102-15

Station ID:

Matrix: Trip Blank - Water

Date Collected: 7/26/18 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	8/20/18 6:49	8/25/18 0:34	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1808086 - S PFC

Blank (1808086-BLK1)

Prepared: 08/20/18 Analyzed: 08/24/18

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	40	"							QS-3, U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	80	"							U
PFBA	U	160	"							U
PFBS	U	40	"							U
PFDA	U	80	"							U
PFDoA	U	40	"							U
PFDS	U	40	"							U
PFHpA	U	40	"							U
PFHpS	U	40	"							U
PFHxA	U	40	"							U
PFHxS	U	40	"							U
PFNA	U	40	"							U
PFNS	U	40	"							U
PFOA	U	40	"							U
PFOS	U	40	"							U
PFPeA	U	40	"							U
PFPeS	U	40	"							U
PFTTrDA	U	40	"							U
PFUdA	U	40	"							U

Blank (1808086-BLK2)

Prepared: 08/20/18 Analyzed: 08/24/18

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	40	"							U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	80	"							U
PFBA	U	160	"							U
PFBS	U	40	"							U
PFDA	U	80	"							U
PFDoA	U	40	"							U
PFDS	U	40	"							U
PFHpA	U	40	"							U
PFHpS	U	40	"							U



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 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1808086 - S PFC

Blank (1808086-BLK2)

Prepared: 08/20/18 Analyzed: 08/24/18

PFHxA	U	40	ng/L							U
PFHxS	U	40	"							U
PFNA	U	40	"							U
PFNS	U	40	"							U
PFOA	U	40	"							U
PFOS	U	40	"							U
PFPeA	U	40	"							U
PFPeS	U	40	"							U
PFTTrDA	U	40	"							U
PFUdA	U	40	"							U

LCS (1808086-BS1)

Prepared: 08/20/18 Analyzed: 08/24/18

ASBPROC-800 PFAS

4:2FTS	363	40	ng/L	374.00		97.1	70-130			
6:2FTS	416	40	"	380.00		110	70-130			
8:2FTS	402	40	"	384.00		105	70-130			
FOSA	359	40	"	400.00		89.8	70-130			
HFPO-DA	297	40	"	400.00		74.1	70-130			
N-MeFOSAA	379	80	"	400.00		94.8	70-130			
PFBA	378	160	"	400.00		94.5	70-130			
PFBS	341	40	"	354.00		96.3	70-130			
PFDA	309	80	"	400.00		77.2	70-130			
PFDoA	468	40	"	400.00		117	70-130			
PFDS	371	40	"	386.00		96.0	70-130			
PFHpA	396	40	"	400.00		99.0	70-130			
PFHpS	388	40	"	380.00		102	70-130			
PFHxA	384	40	"	400.00		96.0	70-130			
PFHxS	350	40	"	364.80		95.8	70-130			
PFNA	378	40	"	400.00		94.5	70-130			
PFNS	361	40	"	384.00		94.0	70-130			
PFOA	390	40	"	400.00		97.5	70-130			
PFOS	387	40	"	370.20		105	70-130			
PFPeA	369	40	"	400.00		92.3	70-130			
PFPeS	360	40	"	376.00		95.7	70-130			
PFTTrDA	402	40	"	400.00		100	70-130			
PFUdA	397	40	"	400.00		99.2	70-130			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 18-0033

Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1808086 - S PFC

Matrix Spike Dup (1808086-MSD1)

Source: E183102-14

Prepared: 08/20/18 Analyzed: 08/25/18

PFHpS	397	40	ng/L	380.76	U	104	70-130	8.15	20	
PFHxA	398	40	"	400.80	U	99.2	70-130	5.02	20	
PFHxS	354	40	"	365.53	U	96.7	70-130	4.11	20	
PFNA	411	40	"	400.80	U	102	70-130	7.27	20	
PFNS	395	40	"	384.77	U	103	70-130	16.1	20	
PFOA	439	40	"	400.80	U	110	70-130	12.6	20	
PFOS	383	40	"	370.94	U	103	70-130	5.95	20	
PFPeA	405	40	"	400.80	U	101	70-130	7.91	20	
PFPeS	371	40	"	376.75	U	98.5	70-130	8.70	20	
PFTrDA	423	40	"	400.80	U	106	70-130	3.08	20	
PFUdA	487	40	"	400.80	U	122	70-130	18.0	20	

MRL Verification (1808086-PS1)

Prepared: 08/20/18 Analyzed: 08/24/18

ASBPROC-800 PFAS

4:2FTS	31.0	40	ng/L	37.400		82.9	50-150			MRL-2, Q-2, J
6:2FTS	35.2	40	"	38.000		92.7	50-150			MRL-2, Q-2, J
8:2FTS	21.8	40	"	38.400		56.7	50-150			MRL-2, Q-2, U
FOSA	35.6	40	"	40.000		88.9	50-150			MRL-2, Q-2, J
HFPO-DA	34.0	40	"	40.000		85.0	50-150			MRL-2, Q-2, J
PFBS	28.4	40	"	35.400		80.3	50-150			MRL-2, Q-2, J
PFDA	48.5	80	"	40.000		121	50-150			MRL-2, Q-2, J
PFDoA	44.5	40	"	40.000		111	50-150			MRL-2
PFDS	33.9	40	"	38.600		87.9	50-150			MRL-2, Q-2, J
PFHpA	42.6	40	"	40.000		106	50-150			MRL-2
PFHpS	38.3	40	"	38.000		101	50-150			MRL-2, Q-2, J
PFHxA	40.4	40	"	40.000		101	50-150			MRL-2
PFHxS	31.1	40	"	36.480		85.3	50-150			MRL-2, Q-2, J
PFNA	34.7	40	"	40.000		86.8	50-150			MRL-2, Q-2, J
PFNS	39.2	40	"	38.400		102	50-150			MRL-2, Q-2, J
PFOA	39.8	40	"	40.000		99.5	50-150			MRL-2, Q-2, J
PFOS	34.9	40	"	37.020		94.2	50-150			MRL-2, Q-2, J



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1808086 - S PFC

MRL Verification (1808086-PS1)

Prepared: 08/20/18 Analyzed: 08/24/18

PFPeA	37.8	40	ng/L	40.000		94.6	50-150			MRL-2, Q-2, J
PFPeS	39.0	40	"	37.600		104	50-150			MRL-2, Q-2, J
PFTTrDA	33.3	40	"	40.000		83.3	50-150			MRL-2, Q-2, J
PFUdA	35.1	40	"	40.000		87.7	50-150			MRL-2, Q-2, J

MRL Verification (1808086-PS2)

Prepared: 08/20/18 Analyzed: 08/24/18

ASBPROC-800 PFAS

N-MeFOSAA	85.1	80	ng/L	160.00		53.2	50-150			MRL-2
PFBA	122	160	"	160.00		76.3	50-150			MRL-2, Q-2, J



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Project: 18-0553, Falls Lake PFAS - Reported by Floyd Wellborn

Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- Q-2 Result greater than MDL but less than MRL.
- QM-1 Matrix Spike Recovery less than method control limits
- QM-2 Matrix Spike Recovery greater than method control limits
- QM-3 Matrix Spike Precision outside method control limits
- QS-3 Surrogate recovery is lower than established control limits.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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 D.A.R.T. Id: 18-0033
 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

February 7, 2019

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
 Project: 18-0645, Falls Lake PFAS

FROM: Floyd Wellborn
 ASB Organic Chemistry Section Chief

THRU: Sandra Aker, Chief
 Analytical Services Branch

TO: Floyd Wellborn

This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Services Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Semi Volatile Organics (SVOA)

PFAS

ASBPROC-800 PFAS (Water)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Report Narrative for Work Order: E183305 Analysis: SVOA

2/6/19 FW: HFPO-DA results were re-evaluated and determined to fail the identification criteria prescribed by the analysis method. Previously reported concentrations of HFPO-DA greater than the MDL but less than the MRL in samples E183305-03 and E183305-10 have been re-reported with the result of not detected at or above the minimum reporting limit. No other results were changed. This report replaces the previous report E183305 SVOA FINAL 11 14 18 0918.

Sample Disposal Policy

Due to limited space for long term sample storage, ASB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.



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 D.A.R.T. Id: 18-0033
 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

SAMPLES INCLUDED IN THIS REPORT

Project: 18-0645, Falls Lake PFAS

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
J1890000 Neuse River @ SR 2000	E183305-01	Water	8/16/18 08:25	8/17/18 10:30
J1100000 Flat River @ SR 1004	E183305-02	Water	8/16/18 11:05	8/17/18 10:30
J1210000 Knap of Reeds Creek	E183305-03	Water	8/16/18 11:40	8/17/18 10:30
J1210000 DUP Knap of Reeds Creek	E183305-04	Water	8/16/18 11:45	8/17/18 10:30
J0810000 End River @ SR 1004	E183305-05	Water	8/16/18 12:30	8/17/18 10:30
J1330000 Ellerbe Creek @ SR 1636	E183305-06	Water	8/16/18 13:05	8/17/18 10:30
Trip Blank	E183305-07	Trip Blank - Water	8/16/18 07:45	8/17/18 10:30
NEU013 Fall Lake @ I-85 near Northside NC	E183305-08	Water	8/16/18 10:55	8/17/18 10:30
DUP NEU013 Falls Lake @ I-85 near Northside	E183305-09	Water	8/16/18 10:55	8/17/18 10:30
NEU0171B Falls Lake @ Mth Little Lick Creek	E183305-10	Water	8/16/18 10:25	8/17/18 10:30
NEU018E Falls Lake @ Mouth Ledge Creek	E183305-11	Water	8/16/18 09:55	8/17/18 10:30
NEU019L Falls Lake @ Channel Marker #6 near	E183305-12	Water	8/16/18 10:45	8/17/18 10:30
NEU020D Falls Lake @ Marker #1 near Baylors	E183305-13	Water	8/16/18 11:25	8/17/18 10:30
MSD NEU020D Falls Lake @ Marker #1 near	E183305-14	Water	8/16/18 11:25	8/17/18 10:30
Trip Blank (2)	E183305-15	Trip Blank - Water	8/16/18 09:15	8/17/18 10:30



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Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Q-2 Result greater than MDL but less than MRL.
- QC-3 Analyte calibration criteria not met
- QC-5 Calibration check standard less than method control limits.
- QM-2 Matrix Spike Recovery greater than method control limits
- QM-3 Matrix Spike Precision outside method control limits
- QS-3 Surrogate recovery is lower than established control limits.

ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

- ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>
- NR The EPA Region 4 Laboratory has not requested accreditation for this test.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1890000 Neuse River @ SR 2000

Lab ID: E183305-01

Station ID: J1890000

Matrix: Water

Date Collected: 8/16/18 8:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	79	U, J, QC-3	ng/L	79	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
375-22-4	PFBA	79	U, J, QC-3	ng/L	79	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
375-73-5	PFBS	39	U, J, QC-3	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
307-24-4	PFHxA	79	U	ng/L	79	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U, J, QC-3	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
1763-23-1	PFOS	79	U	ng/L	79	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
2706-90-3	PFPeA	79	U	ng/L	79	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1890000 Neuse River @ SR 2000

Lab ID: E183305-01

Station ID: J1890000

Matrix: Water

Date Collected: 8/16/18 8:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	79	U, J, QC-3, QC-5	ng/L	79	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS
2058-94-8	PFUDA	39	U	ng/L	39	9/10/18 17:34	9/20/18 21:57	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1100000 Flat River @ SR 1004

Lab ID: E183305-02

Station ID: J1100000

Matrix: Water

Date Collected: 8/16/18 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	79	U, J, QC-3	ng/L	79	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
375-22-4	PFBA	79	U, J, QC-3	ng/L	79	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, QC-3, QS-3	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
307-24-4	PFHxA	79	U	ng/L	79	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
1763-23-1	PFOS	79	U	ng/L	79	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
2706-90-3	PFPeA	79	U	ng/L	79	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS



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 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1100000 Flat River @ SR 1004

Lab ID: E183305-02

Station ID: J1100000

Matrix: Water

Date Collected: 8/16/18 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	79	U, J, QC-3, QC-5	ng/L	79	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:18	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1210000 Knap of Reeds Creek

Lab ID: E183305-03

Station ID: J1210000

Matrix: Water

Date Collected: 8/16/18 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
375-22-4	PFBA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
307-24-4	PFHxA	80	U	ng/L	80	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
1763-23-1	PFOS	17	J, Q-2	ng/L	80	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
2706-90-3	PFPeA	60	J, Q-2	ng/L	80	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS



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 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1210000 Knap of Reeds Creek

Lab ID: E183305-03

Station ID: J1210000

Matrix: Water

Date Collected: 8/16/18 11:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	80	U, J, QC-3, QC-5	ng/L	80	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/10/18 17:34	9/20/18 22:38	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1210000 DUP Knap of Reeds Creek

Lab ID: E183305-04

Station ID: J1210000

Matrix: Water

Date Collected: 8/16/18 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	77	U, J, QC-3	ng/L	77	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
375-22-4	PFBA	77	U, J, QC-3	ng/L	77	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
375-73-5	PFBS	39	U, J, QC-3	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
307-24-4	PFHxA	77	U	ng/L	77	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U, J, QC-3	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
1763-23-1	PFOS	77	U	ng/L	77	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
2706-90-3	PFPeA	62	J, Q-2	ng/L	77	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS



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 Region 4 Science and Ecosystem Support Division
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 D.A.R.T. Id: 18-0033
 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1210000 DUP Knap of Reeds Creek

Lab ID: E183305-04

Station ID: J1210000

Matrix: Water

Date Collected: 8/16/18 11:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	77	U, J, QC-3, QC-5	ng/L	77	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	9/10/18 17:34	9/20/18 22:59	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J0810000 End River @ SR 1004

Lab ID: E183305-05

Station ID: J0810000

Matrix: Water

Date Collected: 8/16/18 12:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	78	U, J, QC-3	ng/L	78	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
375-22-4	PFBA	39	U, J, QC-3, QS-3	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
375-73-5	PFBS	39	U, J, QC-3, QS-3	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
307-24-4	PFHxA	78	U	ng/L	78	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U, J, QC-3	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
1763-23-1	PFOS	78	U	ng/L	78	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
2706-90-3	PFPeA	78	U	ng/L	78	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J0810000 End River @ SR 1004

Lab ID: E183305-05

Station ID: J0810000

Matrix: Water

Date Collected: 8/16/18 12:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	78	U, J, QC-3, QC-5	ng/L	78	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	9/10/18 17:34	9/20/18 23:19	ASBPROC-800 PFAS



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1330000 Ellerbe Creek @ SR 1636

Lab ID: E183305-06

Station ID: J1330000

Matrix: Water

Date Collected: 8/16/18 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	79	U, J, QC-3	ng/L	79	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
375-22-4	PFBA	79	U, J, QC-3	ng/L	79	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
307-24-4	PFHxA	79	U	ng/L	79	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
1763-23-1	PFOS	17	J, Q-2	ng/L	79	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
2706-90-3	PFPeA	18	J, Q-2	ng/L	79	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: J1330000 Ellerbe Creek @ SR 1636

Lab ID: E183305-06

Station ID: J1330000

Matrix: Water

Date Collected: 8/16/18 13:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	79	U, J, QC-3, QC-5	ng/L	79	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/10/18 17:34	9/20/18 23:40	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E183305-07

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/16/18 7:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
375-22-4	PFBA	80	U, J, QC-3, QS-3	ng/L	80	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, QC-3, QS-3	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
307-24-4	PFHxA	80	U, J, QS-3	ng/L	80	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
1763-23-1	PFOS	80	U	ng/L	80	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
2706-90-3	PFPeA	80	U	ng/L	80	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E183305-07

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/16/18 7:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	80	U, J, QC-3, QC-5	ng/L	80	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/10/18 17:34	9/21/18 0:00	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU013 Fall Lake @ I-85 near Northside NC Lab ID: E183305-08

Station ID: NEU013

Matrix: Water

Date Collected: 8/16/18 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	78	U, J, QC-3	ng/L	78	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
375-22-4	PFBA	78	U, J, QC-3	ng/L	78	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
375-73-5	PFBS	39	U, J, QC-3	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
307-24-4	PFHxA	78	U	ng/L	78	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U, J, QC-3	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
1763-23-1	PFOS	78	U	ng/L	78	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
2706-90-3	PFPeA	78	U	ng/L	78	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU013 Fall Lake @ I-85 near Northside NC Lab ID: E183305-08

Station ID: NEU013 Matrix: Water

Date Collected: 8/16/18 10:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	78	U, J, QC-3, QC-5	ng/L	78	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:21	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake @ I-85 near Northsid Lab ID: E183305-09

Station ID: NEU013

Matrix: Water

Date Collected: 8/16/18 10:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	77	U, J, QC-3	ng/L	77	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
375-22-4	PFBA	16	J, Q-2, QC-3	ng/L	77	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
375-73-5	PFBS	39	U, J, QC-3	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
307-24-4	PFHxA	77	U	ng/L	77	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U, J, QC-3	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
1763-23-1	PFOS	77	U	ng/L	77	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
2706-90-3	PFPeA	77	U	ng/L	77	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake @ I-85 near Northsid Lab ID: E183305-09

Station ID: NEU013

Matrix: Water

Date Collected: 8/16/18 10:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	77	U, J, QC-3, QC-5	ng/L	77	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	9/10/18 17:34	9/21/18 0:41	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake @ Mth Little Lick Cree Lab ID: E183305-10

Station ID: NEU0171B

Matrix: Water

Date Collected: 8/16/18 10:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
375-22-4	PFBA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
307-24-4	PFHxA	80	U	ng/L	80	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
1763-23-1	PFOS	18	J, Q-2	ng/L	80	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
2706-90-3	PFPeA	80	U	ng/L	80	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake @ Mth Little Lick Cree Lab ID: E183305-10

Station ID: NEU0171B

Matrix: Water

Date Collected: 8/16/18 10:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	80	U, J, QC-3, QC-5	ng/L	80	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:02	ASBPROC-800 PFAS



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Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Creek n Lab ID: E183305-11

Station ID: NEU018E

Matrix: Water

Date Collected: 8/16/18 9:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
375-22-4	PFBA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
307-24-4	PFHxA	80	U	ng/L	80	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
1763-23-1	PFOS	24	J, Q-2	ng/L	80	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
2706-90-3	PFPeA	80	U	ng/L	80	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Creek n Lab ID: E183305-11

Station ID: NEU018E

Matrix: Water

Date Collected: 8/16/18 9:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	80	U, J, QC-3, QC-5	ng/L	80	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/10/18 17:34	9/21/18 1:22	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU019L Falls Lake @ Channel Marker #6 Lab ID: E183305-12

Station ID: NEU019L

Matrix: Water

Date Collected: 8/16/18 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
27619-97-2	6:2FTS	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
39108-34-4	8:2FTS	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
754-91-6	FOSA	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	75	U, J, QC-3	ng/L	75	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
375-22-4	PFBA	75	U, J, QC-3	ng/L	75	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
375-73-5	PFBS	37	U, J, QC-3	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
335-76-2	PFDA	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
307-55-1	PFDoA	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
335-77-3	PFDS	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
375-85-9	PFHpA	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
375-92-8	PFHpS	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
307-24-4	PFHxA	75	U	ng/L	75	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
355-46-4	PFHxS	37	U, J, QC-3	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
375-95-1	PFNA	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
68259-12-1	PFNS	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
335-67-1	PFOA	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
1763-23-1	PFOS	75	U	ng/L	75	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
2706-90-3	PFPeA	75	U	ng/L	75	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU019L Falls Lake @ Channel Marker #6 Lab ID: E183305-12

Station ID: NEU019L

Matrix: Water

Date Collected: 8/16/18 10:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	75	U, J, QC-3, QC-5	ng/L	75	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS
2058-94-8	PFUdA	37	U	ng/L	37	9/10/18 17:34	9/21/18 1:43	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU020D Falls Lake @ Marker #1 near Bayle Lab ID: E183305-13

Station ID: NEU020D

Matrix: Water

Date Collected: 8/16/18 11:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
375-22-4	PFBA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
307-24-4	PFHxA	80	U	ng/L	80	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
1763-23-1	PFOS	80	U	ng/L	80	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
2706-90-3	PFPeA	80	U	ng/L	80	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: NEU020D Falls Lake @ Marker #1 near Bayle Lab ID: E183305-13

Station ID: NEU020D

Matrix: Water

Date Collected: 8/16/18 11:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	80	U, J, QC-3, QC-5	ng/L	80	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/10/18 17:34	9/21/18 2:03	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake @ Marker #1 near Lab ID: E183305-14

Station ID: NEU020D

Matrix: Water

Date Collected: 8/16/18 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
27619-97-2	6:2FTS	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
39108-34-4	8:2FTS	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
754-91-6	FOSA	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	37	U, J, QM-3	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	75	U, J, QC-3	ng/L	75	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
375-22-4	PFBA	75	U, J, QC-3	ng/L	75	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
375-73-5	PFBS	37	U, J, QC-3	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
335-76-2	PFDA	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
307-55-1	PFDoA	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
335-77-3	PFDS	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
375-85-9	PFHpA	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
375-92-8	PFHpS	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
307-24-4	PFHxA	75	U	ng/L	75	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
355-46-4	PFHxS	37	U, J, QC-3	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
375-95-1	PFNA	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
68259-12-1	PFNS	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
335-67-1	PFOA	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
1763-23-1	PFOS	75	U	ng/L	75	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
2706-90-3	PFPeA	75	U	ng/L	75	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake @ Marker #1 near Lab ID: E183305-14

Station ID: NEU020D Matrix: Water

Date Collected: 8/16/18 11:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	37	U	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	75	U, J, QC-3, QC-5, QM-3	ng/L	75	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS
2058-94-8	PFUdA	37	U, J, QM-2	ng/L	37	9/10/18 17:34	9/21/18 2:24	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 18-0645, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: Trip Blank (2)

Lab ID: E183305-15

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/16/18 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
39108-34-4	8:2FTS	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	80	U, J, QC-3	ng/L	80	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
375-22-4	PFBA	80	U, J, QC-3, QS-3	ng/L	80	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
307-24-4	PFHxA	80	U, J, QS-3	ng/L	80	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, QC-3	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
1763-23-1	PFOS	80	U	ng/L	80	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
2706-90-3	PFPeA	80	U, J, QS-3	ng/L	80	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 18-0645, Falls Lake PFAS

Sample ID: Trip Blank (2)

Lab ID: E183305-15

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/16/18 9:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	80	U, J, QC-3, QC-5	ng/L	80	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/10/18 17:34	9/21/18 3:25	ASBPROC-800 PFAS



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1809055 - S PFC

Blank (1809055-BLK1)

Prepared & Analyzed: 09/20/18

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	40	"							U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	80	"							QC-3, U
PFBA	U	80	"							U
PFBS	U	40	"							QC-3, U
PFDA	U	40	"							QC-3, U
PFD _o A	U	40	"							U
PFDS	U	40	"							U
PFHpA	U	40	"							U
PFHpS	U	40	"							U
PFHxA	U	80	"							U
PFHxS	U	40	"							QC-3, U
PFNA	U	40	"							U
PFNS	U	40	"							U
PFOA	U	40	"							U
PFOS	U	80	"							U
PFPeA	U	80	"							U
PFPeS	U	40	"							U
PFT _r DA	U	80	"							QC-3, U
PFUdA	U	40	"							U

Blank (1809055-BLK2)

Prepared & Analyzed: 09/20/18

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	40	"							U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	80	"							QC-3, U
PFBA	U	80	"							U
PFBS	U	40	"							QC-3, U
PFDA	U	40	"							QC-3, U
PFD _o A	U	40	"							U
PFDS	U	40	"							U
PFHpA	U	40	"							U
PFHpS	U	40	"							U



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1809055 - S PFC

Blank (1809055-BLK2)				Prepared & Analyzed: 09/20/18						
PFHxA	U	80	ng/L							U
PFHxS	U	40	"							QC-3, U
PFNA	U	40	"							U
PFNS	U	40	"							U
PFOA	U	40	"							U
PFOS	U	80	"							U
PFPeA	U	80	"							U
PFPeS	U	40	"							U
PFTTrDA	U	80	"							QC-3, U
PFUdA	U	40	"							U

LCS (1809055-BS1)

ASBPROC-800 PFAS				Prepared & Analyzed: 09/20/18						
4:2FTS	424	40	ng/L	374.00		113	67.1-125			
6:2FTS	484	40	"	380.00		127	49.2-134			
8:2FTS	394	40	"	384.00		103	56.4-136			
FOSA	373	40	"	400.00		93.2	57.7-148			
HFPO-DA	302	40	"	400.00		75.4	51.1-127			
N-MeFOSAA	414	80	"	400.00		103	43.2-178			QC-3
PFBA	457	80	"	400.00		114	67.9-118			
PFBS	413	40	"	354.00		117	68.2-118			QC-3
PFDA	391	40	"	400.00		97.7	47.4-162			QC-3
PFDoA	375	40	"	400.00		93.6	56.5-155			
PFDS	353	40	"	386.00		91.6	35.1-168			
PFHpA	468	40	"	400.00		117	72.8-116			QL-2
PFHpS	431	40	"	380.00		113	59.7-130			
PFHxA	485	80	"	400.00		121	62.6-127			
PFHxS	417	40	"	364.80		114	69.5-117			QC-3
PFNA	421	40	"	400.00		105	64.1-128.4			
PFNS	368	40	"	384.00		95.9	63.3-126			
PFOA	440	40	"	400.00		110	66.7-122			
PFOS	370	80	"	370.20		100	70.4-122			
PFPeA	465	80	"	400.00		116	72-115			QL-2
PFPeS	448	40	"	376.00		119	69-117			QL-2
PFTTrDA	304	80	"	400.00		76.1	32.2-215			QC-3
PFUdA	402	40	"	400.00		101	65.8-142			



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1809055 - S PFC

Matrix Spike Dup (1809055-MSD1)	Source: E183305-14			Prepared: 09/20/18		Analyzed: 09/21/18				
PFHpA	460	39	ng/L	376.65	U	122	70-130	6.86	20	
PFHpS	431	39	"	357.82	U	120	70-130	0.292	20	
PFHxA	507	78	"	376.65	U	134	70-130	0.608	20	QM-2
PFHxS	418	39	"	343.50	U	122	70-130	11.1	20	QC-3
PFNA	457	39	"	376.65	U	121	70-130	3.07	20	
PFNS	403	39	"	361.58	U	111	70-130	9.12	20	
PFOA	459	39	"	376.65	U	122	70-130	1.34	20	
PFOS	470	78	"	348.59	U	135	70-130	15.2	20	QM-2
PFPeA	463	78	"	376.65	U	123	70-130	2.71	20	
PFPeS	409	39	"	354.05	U	116	70-130	1.49	20	
PFTTrDA	370	78	"	376.65	U	98.1	70-130	28.4	20	QC-3, QM-3
PFUdA	485	39	"	376.65	U	129	70-130	4.42	20	

MRL Verification (1809055-PS1)

Prepared & Analyzed: 09/20/18

ASBPROC-800 PFAS

4:2FTS	40.9	40	ng/L	37.400		109	47.1-1465			MRL-2
6:2FTS	42.6	40	"	38.000		112	29.2-154			MRL-2
8:2FTS	19.4	40	"	38.400		50.5	36.4-156			MRL-2, J
FOSA	40.5	40	"	40.000		101	37.7-168			MRL-2
HFPO-DA	39.5	40	"	40.000		98.8	31.3-147			MRL-2, J
PFBS	36.4	40	"	35.400		103	48.2-138			MRL-2, Q-2, QC-3, J
PFDA	40.6	40	"	40.000		101	27.4-182			MRL-2
PFDoA	48.5	40	"	40.000		121	36.5-175			MRL-2
PFDS	49.3	40	"	38.600		128	15.1-188			MRL-2
PFHpA	50.3	40	"	40.000		126	52.8-136			MRL-2
PFHpS	39.5	40	"	38.000		104	39.7-150			MRL-2, Q-2, J
PFHxA	55.5	80	"	40.000		139	42.6-147			MRL-2, Q-2, J
PFHxS	40.6	40	"	36.480		111	49.5-138			MRL-2, QC-3
PFNA	38.8	40	"	40.000		97.0	44.1-148			MRL-2, Q-2, J
PFNS	37.6	40	"	38.400		97.9	43.3-146			MRL-2, Q-2, J
PFOA	35.2	40	"	40.000		88.0	46.7-142			MRL-2, Q-2, J
PFPeS	49.3	40	"	37.600		131	49-137			MRL-2
PFTTrDA	21.4	80	"	40.000		53.6	12.2-235			MRL-2, QC-3, J



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1809055 - S PFC

MRL Verification (1809055-PS1)

Prepared & Analyzed: 09/20/18

PFUDA	35.3	40	ng/L	40.000		88.2	45.8-162			MRL-2, J
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MRL Verification (1809055-PS2)

Prepared & Analyzed: 09/20/18

ASBPROC-800 PFAS

N-MeFOSAA	136	80	ng/L	160.00		85.1	23.2-198			MRL-2, QC-3
PFBA	188	80	"	160.00		118	47.9-138			MRL-2, QC-3
PFOS	145	80	"	148.08		97.7	50.4-142			MRL-2
PFPeA	175	80	"	160.00		109	52-135			MRL-2



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Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- Q-2 Result greater than MDL but less than MRL.
- QC-3 Analyte calibration criteria not met
- QL-2 Laboratory Control Spike Recovery greater than method control limits
- QM-2 Matrix Spike Recovery greater than method control limits
- QM-3 Matrix Spike Precision outside method control limits



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 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

November 20, 2018

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
 Project: 19-0033, Falls Lake PFAS
 Drinking Water

FROM: Floyd Wellborn
 ASB Organic Chemistry Section Chief

THRU: Sandra Aker, Chief
 Analytical Support Branch

TO: Floyd Wellborn

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Semi Volatile Organics (SVOA)

PFAS

ASBPROC-800 PFAS (Water)



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D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Sample Disposal Policy

Due to limited space for long term sample storage, ASB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.



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SAMPLES INCLUDED IN THIS REPORT

Project: 19-0033, Falls Lake PFAS

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
NEU013 Falls Lake at I-85 near Northside NC	E184306-01	Water	10/25/18 11:30	10/26/18 10:36
DUP NEU013 Falls Lake at I-85 near Northside NC	E184306-02	Water	10/25/18 11:30	10/26/18 10:36
NEU0171B Falls Lake at Mth Little Lick Ck	E184306-03	Water	10/25/18 10:25	10/26/18 10:36
Trip Blank	E184306-04	Trip Blank - Water	10/25/18 09:00	10/26/18 10:36
NEU018E Falls Lake at Mouth Ledge Ck	E184306-05	Water	10/25/18 10:00	10/26/18 10:36
DUP NEU018E Falls Lake at Mouth Ledge Ck	E184306-06	Water	10/25/18 10:00	10/26/18 10:36
NEU019L Falls Lake at Channel Marker #6	E184306-07	Water	10/25/18 11:00	10/26/18 10:36
NEU020D Falls Lake at Marker #1 Near Bay	E184306-08	Water	10/25/18 12:00	10/26/18 10:36
MSD NEU020D Falls Lake at Marker #1 Near Bay	E184306-09	Water	10/25/18 12:00	10/26/18 10:36
J1890000 NEUSE RIVER AT SR 2000 NR FALLS LAKE	E184306-10	Water	10/25/18 09:05	10/26/18 10:36
J1100000 FLAT RIV AT SR 1004 NR WILLA WOOD	E184306-11	Water	10/25/18 11:10	10/26/18 10:36
J1210000 KNAP OF REEDS CRK AT WWTF	E184306-12	Water	10/25/18 10:15	10/26/18 10:36
J1330000 ELLERBE CRK AT SR1636 NR DUELL	E184306-13	Water	10/25/18 12:45	10/26/18 10:36
J0810000 ENO RIV AT SR 1004 NR DURHAM	E184306-14	Water	10/25/18 12:00	10/26/18 10:36
DUP J0810000 ENO RIV AT SR 1004 NR DURHAM	E184306-15	Water	10/25/18 12:00	10/26/18 10:36



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-1	Matrix Spike Recovery less than method control limits
QM-3	Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO	ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board. Refer to the certificate and scope of accreditation AT-1644 at: http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd
NR	The EPA Region 4 Laboratory has not requested accreditation for this test.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU013 Falls Lake at I-85 near Northside NC Lab ID: E184306-01

Station ID: NEU013

Matrix: Water

Date Collected: 10/25/18 11:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
39108-34-4	8:2FTS	77	U	ng/L	77	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
375-22-4	PFBA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS



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 Region 4 Science and Ecosystem Support Division
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 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU013 Falls Lake at I-85 near Northside NC Lab ID: E184306-01

Station ID: NEU013

Matrix: Water

Date Collected: 10/25/18 11:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	10/31/18 11:06	11/09/18 14:02	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake at I-85 near Northsid Lab ID: E184306-02

Station ID: NEU013

Matrix: Water

Date Collected: 10/25/18 11:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
39108-34-4	8:2FTS	82	U	ng/L	82	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake at I-85 near Northsid Lab ID: E184306-02

Station ID: NEU013

Matrix: Water

Date Collected: 10/25/18 11:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:22	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake at Mth Little Lick Ck N Lab ID: E184306-03

Station ID: NEU0171B

Matrix: Water

Date Collected: 10/25/18 10:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
39108-34-4	8:2FTS	83	U	ng/L	83	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake at Mth Little Lick Ck N Lab ID: E184306-03

Station ID: NEU0171B

Matrix: Water

Date Collected: 10/25/18 10:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	10/31/18 11:06	11/09/18 14:43	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E184306-04

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/25/18 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U	ng/L	80	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E184306-04

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/25/18 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:03	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU018E Falls Lake at Mouth Ledge Ck Nr C Lab ID: E184306-05

Station ID: NEU018E

Matrix: Water

Date Collected: 10/25/18 10:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
39108-34-4	8:2FTS	79	U	ng/L	79	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU018E Falls Lake at Mouth Ledge Ck Nr C Lab ID: E184306-05

Station ID: NEU018E

Matrix: Water

Date Collected: 10/25/18 10:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS
2058-94-8	PFuDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:24	ASBPROC-800 PFAS



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: DUP NEU018E Falls Lake at Mouth Ledge Ck Lab ID: E184306-06

Station ID: NEU018E

Matrix: Water

Date Collected: 10/25/18 10:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U	ng/L	80	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: DUP NEU018E Falls Lake at Mouth Ledge Ck Lab ID: E184306-06

Station ID: NEU018E

Matrix: Water

Date Collected: 10/25/18 10:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/31/18 11:06	11/09/18 15:44	ASBPROC-800 PFAS



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU019L Falls Lake at Channel Marker #6 n Lab ID: E184306-07

Station ID: NEU019L

Matrix: Water

Date Collected: 10/25/18 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
39108-34-4	8:2FTS	79	U	ng/L	79	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU019L Falls Lake at Channel Marker #6 n Lab ID: E184306-07

Station ID: NEU019L

Matrix: Water

Date Collected: 10/25/18 11:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:05	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU020D Falls Lake at Marker #1 Near Bayle Lab ID: E184306-08

Station ID: NEU020D

Matrix: Water

Date Collected: 10/25/18 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U	ng/L	80	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: NEU020D Falls Lake at Marker #1 Near Bayle Lab ID: E184306-08

Station ID: NEU020D

Matrix: Water

Date Collected: 10/25/18 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/31/18 11:06	11/09/18 16:25	ASBPROC-800 PFAS



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake at Marker #1 Near Lab ID: E184306-09

Station ID: NEU020D

Matrix: Water

Date Collected: 10/25/18 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U, J, QM-3	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
39108-34-4	8:2FTS	78	U	ng/L	78	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U, J, QM-1, QM-3	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	39	U, J, QM-3	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
375-22-4	PFBA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake at Marker #1 Near Lab ID: E184306-09

Station ID: NEU020D Matrix: Water

Date Collected: 10/25/18 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	10/31/18 11:06	11/09/18 16:46	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J1890000 NEUSE RIVER AT SR 2000 NR FAI Lab ID: E184306-10

Station ID: J1890000

Matrix: Water

Date Collected: 10/25/18 9:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
27619-97-2	6:2FTS	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
39108-34-4	8:2FTS	83	U	ng/L	83	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
754-91-6	FOSA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
375-22-4	PFBA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
375-73-5	PFBS	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
335-76-2	PFDA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
307-55-1	PFDoA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
335-77-3	PFDS	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
375-85-9	PFHpA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
375-92-8	PFHpS	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
307-24-4	PFHxA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
355-46-4	PFHxS	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
375-95-1	PFNA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
68259-12-1	PFNS	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
335-67-1	PFOA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
1763-23-1	PFOS	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
2706-90-3	PFPeA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS



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 Region 4 Science and Ecosystem Support Division
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 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J1890000 NEUSE RIVER AT SR 2000 NR FAI Lab ID: E184306-10

Station ID: J1890000

Matrix: Water

Date Collected: 10/25/18 9:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS
2058-94-8	PFUdA	42	U	ng/L	42	10/31/18 11:06	11/09/18 17:06	ASBPROC-800 PFAS



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 18-0033

Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J1100000 FLAT RIV AT SR 1004 NR WILLAF Lab ID: E184306-11

Station ID: J1100000

Matrix: Water

Date Collected: 10/25/18 11:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
39108-34-4	8:2FTS	79	U	ng/L	79	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
375-22-4	PFBA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J1100000 FLAT RIV AT SR 1004 NR WILLAF Lab ID: E184306-11

Station ID: J1100000

Matrix: Water

Date Collected: 10/25/18 11:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	10/31/18 11:06	11/09/18 17:27	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J1210000 KNAP OF REEDS CRK AT WWTP Lab ID: E184306-12

Station ID: J1210000

Matrix: Water

Date Collected: 10/25/18 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
39108-34-4	8:2FTS	81	U	ng/L	81	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J1210000 KNAP OF REEDS CRK AT WWTP Lab ID: E184306-12

Station ID: J1210000

Matrix: Water

Date Collected: 10/25/18 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	10/31/18 11:06	11/09/18 17:47	ASBPROC-800 PFAS



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Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J1330000 ELLERBE CRK AT SR1636 NR DU Lab ID: E184306-13

Station ID: J1330000

Matrix: Water

Date Collected: 10/25/18 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
39108-34-4	8:2FTS	76	U	ng/L	76	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
754-91-6	FOSA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
375-22-4	PFBA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
375-73-5	PFBS	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
335-76-2	PFDA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
307-55-1	PFDoA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
335-77-3	PFDS	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
375-85-9	PFHpA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
307-24-4	PFHxA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
355-46-4	PFHxS	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
375-95-1	PFNA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
335-67-1	PFOA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
1763-23-1	PFOS	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
2706-90-3	PFPeA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J1330000 ELLERBE CRK AT SR1636 NR DU Lab ID: E184306-13

Station ID: J1330000

Matrix: Water

Date Collected: 10/25/18 12:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS
2058-94-8	PFUdA	38	U	ng/L	38	10/31/18 11:06	11/09/18 18:07	ASBPROC-800 PFAS



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Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J0810000 ENO RIV AT SR 1004 NR DURHAM Lab ID: E184306-14

Station ID: J0810000

Matrix: Water

Date Collected: 10/25/18 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
39108-34-4	8:2FTS	79	U	ng/L	79	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
375-22-4	PFBA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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 D.A.R.T. Id: 18-0033
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Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: J0810000 ENO RIV AT SR 1004 NR DURHAM Lab ID: E184306-14

Station ID: J0810000

Matrix: Water

Date Collected: 10/25/18 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:28	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: DUP J0810000 ENO RIV AT SR 1004 NR DUR Lab ID: E184306-15

Station ID: J0810000

Matrix: Water

Date Collected: 10/25/18 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
39108-34-4	8:2FTS	79	U	ng/L	79	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
375-22-4	PFBA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0033, Falls Lake PFAS

Sample ID: DUP J0810000 ENO RIV AT SR 1004 NR DUR Lab ID: E184306-15

Station ID: J0810000

Matrix: Water

Date Collected: 10/25/18 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	10/31/18 11:06	11/09/18 18:48	ASBPROC-800 PFAS



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1810065 - S PFC

Blank (1810065-BLK1)

Prepared & Analyzed: 11/09/18

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	80	"							U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	40	"							U
PFBA	U	40	"							U
PFBS	U	40	"							U
PFDA	U	40	"							U
PFDoA	U	40	"							U
PFDS	U	40	"							U
PFHpA	U	40	"							U
PFHpS	U	40	"							U
PFHxA	U	40	"							U
PFHxS	U	40	"							U
PFNA	U	40	"							U
PFNS	U	40	"							U
PFOA	U	40	"							U
PFOS	U	40	"							U
PFPeA	U	40	"							U
PFPeS	U	40	"							U
PFTTrDA	U	40	"							U
PFUdA	U	40	"							U

Blank (1810065-BLK2)

Prepared & Analyzed: 11/09/18

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	80	"							U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	40	"							U
PFBA	U	40	"							U
PFBS	U	40	"							U
PFDA	U	40	"							U
PFDoA	U	40	"							U
PFDS	U	40	"							U
PFHpA	U	40	"							U
PFHpS	U	40	"							U



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1810065 - S PFC

Blank (1810065-BLK2)				Prepared & Analyzed: 11/09/18						
PFHxA	U	40	ng/L							U
PFHxS	U	40	"							U
PFNA	U	40	"							U
PFNS	U	40	"							U
PFOA	U	40	"							U
PFOS	U	40	"							U
PFPeA	U	40	"							U
PFPeS	U	40	"							U
PFTTrDA	U	40	"							U
PFUdA	U	40	"							U

LCS (1810065-BS1)

Prepared & Analyzed: 11/09/18

ASBPROC-800 PFAS

4:2FTS	381	40	ng/L	374.00		102	67.1-125			
6:2FTS	382	40	"	380.00		100	49.2-134			
8:2FTS	371	80	"	384.00		96.7	56.4-136			
FOSA	383	40	"	400.00		95.8	57.7-148			
HFPO-DA	283	40	"	400.00		70.7	51.1-127			
N-MeFOSAA	365	40	"	400.00		91.2	43.2-178			
PFBA	330	40	"	400.00		82.6	67.9-118			
PFBS	315	40	"	354.00		88.9	68.2-118			
PFDA	390	40	"	400.00		97.6	47.4-162			
PFDoA	376	40	"	400.00		94.0	56.5-155			
PFDS	338	40	"	386.00		87.5	35.1-168			
PFHpA	375	40	"	400.00		93.9	72.8-116			
PFHpS	360	40	"	380.00		94.8	59.7-130			
PFHxA	362	40	"	400.00		90.5	62.6-127			
PFHxS	344	40	"	364.80		94.2	69.5-117			
PFNA	412	40	"	400.00		103	64.1-128.4			
PFNS	377	40	"	384.00		98.1	63.3-126			
PFOA	364	40	"	400.00		91.0	66.7-122			
PFOS	391	40	"	370.20		106	70.4-122			
PFPeA	360	40	"	400.00		89.9	72-115			
PFPeS	336	40	"	376.00		89.4	69-117			
PFTTrDA	318	40	"	400.00		79.6	32.2-215			
PFUdA	403	40	"	400.00		101	65.8-142			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 19-0033, Falls Lake PFAS - Reported by Floyd Wellborn

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1810065 - S PFC

Matrix Spike (1810065-MS1)

Source: E184306-09

Prepared: 10/31/18 Analyzed: 11/09/18

ASBPROC-800 PFAS

4:2FTS	300	40	ng/L	315.35	U	95.1	70-130			QM-3
6:2FTS	331	40	"	320.40	U	103	70-130			
8:2FTS	323	80	"	323.78	U	99.9	70-130			
FOSA	345	40	"	337.27	U	102	70-130			
HFPO-DA	252	40	"	337.27	U	74.8	70-130			QM-3
N-MeFOSAA	286	40	"	337.27	U	84.7	70-130			QM-3
PFBA	310	40	"	337.27	U	92.0	70-130			
PFBS	290	40	"	298.48	U	97.1	70-130			
PFDA	378	40	"	337.27	U	112	70-130			
PFDoA	395	40	"	337.27	U	117	70-130			
PFDS	358	40	"	325.46	U	110	70-130			
PFHpA	330	40	"	337.27	U	97.8	70-130			
PFHpS	329	40	"	320.40	U	103	70-130			
PFHxA	332	40	"	337.27	U	98.3	70-130			
PFHxS	309	40	"	307.59	U	101	70-130			
PFNA	337	40	"	337.27	U	100	70-130			
PFNS	349	40	"	323.78	U	108	70-130			
PFOA	350	40	"	337.27	U	104	70-130			
PFOS	296	40	"	312.14	U	94.7	70-130			
PFPeA	320	40	"	337.27	U	95.0	70-130			
PFPeS	310	40	"	317.03	U	97.7	70-130			
PFTTrDA	436	40	"	337.27	U	129	70-130			
PFUdA	437	40	"	337.27	U	129	70-130			

Matrix Spike Dup (1810065-MSD1)

Source: E184306-09

Prepared: 10/31/18 Analyzed: 11/09/18

ASBPROC-800 PFAS

4:2FTS	379	40	ng/L	316.95	U	120	70-130	23.4	20	QM-3
6:2FTS	329	40	"	322.03	U	102	70-130	0.413	20	
8:2FTS	383	81	"	325.42	U	118	70-130	16.9	20	
FOSA	397	40	"	338.98	U	117	70-130	14.0	20	
HFPO-DA	196	40	"	338.98	U	57.9	70-130	25.0	20	QM-1, QM-3
N-MeFOSAA	458	40	"	338.98	U	135	70-130	46.3	20	QM-2, QM-3
PFBA	330	40	"	338.98	U	97.4	70-130	6.27	20	
PFBS	287	40	"	300.00	U	95.8	70-130	0.769	20	
PFDA	369	40	"	338.98	U	109	70-130	2.60	20	
PFDoA	426	40	"	338.98	U	126	70-130	7.63	20	
PFDS	340	40	"	327.12	U	104	70-130	5.16	20	



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1810065 - S PFC

Matrix Spike Dup (1810065-MSD1)	Source: E184306-09			Prepared: 10/31/18 Analyzed: 11/09/18						
PFHpA	345	40	ng/L	338.98	U	102	70-130	4.48	20	
PFHpS	344	40	"	322.03	U	107	70-130	4.48	20	
PFHxA	343	40	"	338.98	U	101	70-130	3.38	20	
PFHxS	323	40	"	309.15	U	104	70-130	4.32	20	
PFNA	358	40	"	338.98	U	106	70-130	6.08	20	
PFNS	367	40	"	325.42	U	113	70-130	5.04	20	
PFOA	356	40	"	338.98	U	105	70-130	1.71	20	
PFOS	349	40	"	313.73	U	111	70-130	16.6	20	
PFPeA	343	40	"	338.98	U	101	70-130	6.76	20	
PFPeS	328	40	"	318.64	U	103	70-130	5.72	20	
PFTrDA	460	40	"	338.98	U	136	70-130	5.21	20	QM-2
PFUdA	396	40	"	338.98	U	117	70-130	9.63	20	

MRL Verification (1810065-PS1)

Prepared & Analyzed: 11/09/18

ASBPROC-800 PFAS

4:2FTS	36.2	40	ng/L	37.400		96.7	47.1-1465			MRL-2, Q-2, J
6:2FTS	33.3	40	"	38.000		87.6	29.2-154			MRL-2, Q-2, J
FOSA	53.6	40	"	40.000		134	37.7-168			MRL-2
HFPO-DA	14.3	40	"	40.000		35.7	31.3-147			MRL-2, Q-2, J
N-MeFOSAA	11.0	40	"	40.000		27.6	23.2-198			MRL-2, Q-2, J
PFBA	29.2	40	"	40.000		73.1	47.9-138			MRL-2, Q-2, J
PFBS	30.9	40	"	35.400		87.2	48.2-138			MRL-2, Q-2, J
PFDA	33.4	40	"	40.000		83.5	27.4-182			MRL-2, Q-2, J
PFDoA	37.1	40	"	40.000		92.9	36.5-175			MRL-2, Q-2, J
PFDS	47.3	40	"	38.600		122	15.1-188			MRL-2
PFHpA	39.3	40	"	40.000		98.3	52.8-136			MRL-2, Q-2, J
PFHpS	36.7	40	"	38.000		96.6	39.7-150			MRL-2, Q-2, J
PFHxA	35.7	40	"	40.000		89.2	42.6-147			MRL-2, Q-2, J
PFHxS	38.3	40	"	36.480		105	49.5-138			MRL-2, Q-2, J
PFNA	34.9	40	"	40.000		87.3	44.1-148			MRL-2, Q-2, J
PFNS	43.4	40	"	38.400		113	43.3-146			MRL-2



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1810065 - S PFC

MRL Verification (1810065-PS1)

Prepared & Analyzed: 11/09/18

PFOA	43.2	40	ng/L	40.000		108	46.7-142			MRL-2
PFOS	19.9	40	"	37.020		53.9	50.4-142			MRL-2, Q-2, J
PFPeA	27.5	40	"	40.000		68.9	52-135			MRL-2, Q-2, J
PFPeS	33.3	40	"	37.600		88.5	49-137			MRL-2, Q-2, J
PFTTrDA	46.9	40	"	40.000		117	12.2-235			MRL-2
PFUdA	31.2	40	"	40.000		78.0	45.8-162			MRL-2, Q-2, J

MRL Verification (1810065-PS2)

Prepared & Analyzed: 11/09/18

ASBPROC-800 PFAS

8:2FTS	112	80	ng/L	153.60		72.7	36.4-156			MRL-2
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Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- Q-2 Result greater than MDL but less than MRL.
- QM-1 Matrix Spike Recovery less than method control limits
- QM-2 Matrix Spike Recovery greater than method control limits
- QM-3 Matrix Spike Precision outside method control limits



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 18-0033
Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

February 4, 2019

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 19-0060, Falls Lake PFAS

FROM: Diana Burdette
OCS Analyst

THRU: Floyd Wellborn, Chief
ASB Organic Chemistry Section

TO: Becky Allenbach

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Services Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Semi Volatile Organics (SVOA)

PFAS

ASBPROC-800 PFAS (Water)



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Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Sample Disposal Policy

Due to limited space for long term sample storage, ASB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.



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SAMPLES INCLUDED IN THIS REPORT

Project: 19-0060, Falls Lake PFAS

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
NEU013 Falls Lake at I-85 near Northside NC	E184903-01	Water	11/29/18 11:00	12/4/18 10:30
DUP NEU013 Falls Lake at I-85 near Northside NC	E184903-02	Water	11/29/18 11:00	12/4/18 10:30
NEU0171B Falls Lake @ Mth Little Lick Ck	E184903-03	Water	11/29/18 12:15	12/4/18 10:30
Trip Blank	E184903-04	Trip Blank - Water	11/29/18 08:00	12/4/18 10:30
J1890000 NEUSE RIVER AT SR 2000 NR FALLS LAKE	E184903-05	Water	11/29/18 09:20	12/4/18 10:30
J1100000 FLAT RIV AT SR 1004 NR WILLA WOOD	E184903-06	Water	11/29/18 11:15	12/4/18 10:30
J1210000 KNAP OF REEDS CRK AT WWTF	E184903-07	Water	11/29/18 10:40	12/4/18 10:30
J1330000 ELLERBE CRK AT SR1636 NR DILLON	E184903-08	Water	11/29/18 12:30	12/4/18 10:30
J0810000 ENO RIV AT SR 1004 NR DURHAM	E184903-09	Water	11/29/18 11:50	12/4/18 10:30
DUP J0810000 ENO RIV AT SR 1004 NR DURHAM	E184903-10	Water	11/29/18 11:50	12/4/18 10:30
NEU018E Falls Lake @ Mouth Ledge Ck	E184903-11	Water	11/30/18 09:15	12/4/18 10:30
NEU019L Falls Lake at Channel Marker #6	E184903-12	Water	11/30/18 10:05	12/4/18 10:30
NEU020D Falls Lake @ Marker #1 Near Bay Lake	E184903-13	Water	11/30/18 10:40	12/4/18 10:30
MSD NEU020D Falls Lake @ Marker #1 Near Bay Lake	E184903-14	Water	11/30/18 10:40	12/4/18 10:30
Trip Blank	E184903-15	Trip Blank - Water	11/19/18 07:45	12/4/18 10:30



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Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
J The identification of the analyte is acceptable; the reported value is an estimate.
QM-1 Matrix Spike Recovery less than method control limits
QM-3 Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

- ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.
Refer to the certificate and scope of accreditation AT-1644 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>
- NR The EPA Region 4 Laboratory has not requested accreditation for this test.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 18-0033

Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: NEU013 Falls Lake at I-85 near Northside NC Lab ID: E184903-01

Station ID: NEU013 FALLS LAKE AT I-85 NEAR NORTH Matrix: Water

Date Collected: 11/29/18 11:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
39108-34-4	8:2FTS	82	U	ng/L	82	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: NEU013 Falls Lake at I-85 near Northside NC Lab ID: E184903-01

Station ID: NEU013 FALLS LAKE AT I-85 NEAR NORT Matrix: Water

Date Collected: 11/29/18 11:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:26	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake at I-85 near Northsid Lab ID: E184903-02

Station ID: DUP NEU013 FALLS LAKE AT I-85 NEAR N Matrix: Water

Date Collected: 11/29/18 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
39108-34-4	8:2FTS	83	U	ng/L	83	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake at I-85 near Northsid Lab ID: E184903-02

Station ID: DUP NEU013 FALLS LAKE AT I-85 NEAR N Matrix: Water

Date Collected: 11/29/18 11:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	12/11/18 11:07	12/14/18 1:46	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake @ Mth Little Lick Ck N Lab ID: E184903-03

Station ID: NEU0171B FALLS LAKE @ MTH LITTLE L Matrix: Water

Date Collected: 11/29/18 12:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
39108-34-4	8:2FTS	83	U	ng/L	83	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake @ Mth Little Lick Ck N Lab ID: E184903-03

Station ID: NEU0171B FALLS LAKE @ MTH LITTLE L Matrix: Water

Date Collected: 11/29/18 12:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	12/11/18 11:07	12/14/18 2:06	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E184903-04

Station ID:

Matrix: Trip Blank - Water

Date Collected: 11/29/18 8:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U	ng/L	80	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E184903-04

Station ID:

Matrix: Trip Blank - Water

Date Collected: 11/29/18 8:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	12/11/18 11:07	12/14/18 2:27	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: J1890000 NEUSE RIVER AT SR 2000 NR FAI Lab ID: E184903-05

Station ID: J1890000 NEUSE RIVER AT SR 2000 NR FAI Matrix: Water

Date Collected: 11/29/18 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
39108-34-4	8:2FTS	78	U	ng/L	78	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
375-22-4	PFBA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: J1890000 NEUSE RIVER AT SR 2000 NR FAI Lab ID: E184903-05

Station ID: J1890000 NEUSE RIVER AT SR 2000 NR FAI Matrix: Water

Date Collected: 11/29/18 9:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	12/11/18 11:07	12/14/18 2:47	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: J1100000 FLAT RIV AT SR 1004 NR WILLAF Lab ID: E184903-06

Station ID: J1100000 FLAT RIV AT SR 1004 NR WILLAF Matrix: Water

Date Collected: 11/29/18 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
39108-34-4	8:2FTS	82	U	ng/L	82	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS

Sample ID: J1100000 FLAT RIV AT SR 1004 NR WILLAF Lab ID: E184903-06

Station ID: J1100000 FLAT RIV AT SR 1004 NR WILLAF Matrix: Water

Date Collected: 11/29/18 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:08	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: J1210000 KNAP OF REEDS CRK AT WWTP Lab ID: E184903-07

Station ID: J1210000 KNAP OF REEDS CRK AT WWTP Matrix: Water

Date Collected: 11/29/18 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
39108-34-4	8:2FTS	79	U	ng/L	79	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
754-91-6	FOSA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
375-22-4	PFBA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
375-73-5	PFBS	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
335-76-2	PFDA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
335-77-3	PFDS	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
375-95-1	PFNA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
335-67-1	PFOA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
1763-23-1	PFOS	46		ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: J1210000 KNAP OF REEDS CRK AT WWTP Lab ID: E184903-07

Station ID: J1210000 KNAP OF REEDS CRK AT WWTP Matrix: Water

Date Collected: 11/29/18 10:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS
2058-94-8	PFUdA	39	U	ng/L	39	12/11/18 11:07	12/14/18 3:28	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: J1330000 ELLERBE CRK AT SR1636 NR DU Lab ID: E184903-08

Station ID: J1330000 ELLERBE CRK AT SR1636 NR DU Matrix: Water

Date Collected: 11/29/18 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
39108-34-4	8:2FTS	82	U	ng/L	82	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS

Sample ID: J1330000 ELLERBE CRK AT SR1636 NR DU Lab ID: E184903-08

Station ID: J1330000 ELLERBE CRK AT SR1636 NR DU Matrix: Water

Date Collected: 11/29/18 12:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	12/11/18 11:07	12/14/18 3:49	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS

Sample ID: J0810000 ENO RIV AT SR 1004 NR DURHAM Lab ID: E184903-09

Station ID: J0810000 ENO RIV AT SR 1004 NR DURHAM Matrix: Water

Date Collected: 11/29/18 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
39108-34-4	8:2FTS	82	U	ng/L	82	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS

Sample ID: J0810000 ENO RIV AT SR 1004 NR DURHAM Lab ID: E184903-09

Station ID: J0810000 ENO RIV AT SR 1004 NR DURHAM Matrix: Water

Date Collected: 11/29/18 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:09	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: DUP J0810000 ENO RIV AT SR 1004 NR DUR Lab ID: E184903-10

Station ID: DUP J0810000 ENO RIV AT SR 1004 NR DUR Matrix: Water

Date Collected: 11/29/18 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
39108-34-4	8:2FTS	81	U	ng/L	81	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS

Sample ID: DUP J0810000 ENO RIV AT SR 1004 NR DUR Lab ID: E184903-10

Station ID: DUP J0810000 ENO RIV AT SR 1004 NR DUR Matrix: Water

Date Collected: 11/29/18 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	12/11/18 11:07	12/14/18 4:30	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Ck Nr C Lab ID: E184903-11

Station ID: NEU018E FALLS LAKE @ MOUTH LEDGE Matrix: Water

Date Collected: 11/30/18 9:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
39108-34-4	8:2FTS	81	U	ng/L	81	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
754-91-6	FOSA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
335-76-2	PFDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
335-67-1	PFOA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS



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Project: 19-0060, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Ck Nr C Lab ID: E184903-11

Station ID: NEU018E FALLS LAKE @ MOUTH LEDGE Matrix: Water

Date Collected: 11/30/18 9:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	12/11/18 11:07	12/14/18 4:50	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: NEU019L Falls Lake at Channel Marker #6 N **Lab ID: E184903-12**

Station ID: NEU019L FALLS LAKE AT CHANNEL MAR **Matrix: Water**

Date Collected: 11/30/18 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U	ng/L	80	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: NEU019L Falls Lake at Channel Marker #6 N Lab ID: E184903-12

Station ID: NEU019L FALLS LAKE AT CHANNEL MAR Matrix: Water

Date Collected: 11/30/18 10:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:10	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: NEU020D Falls Lake @ Marker #1 Near Bayle Lab ID: E184903-13

Station ID: NEU020D FALLS LAKE @ MARKER #1 NE Matrix: Water

Date Collected: 11/30/18 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
39108-34-4	8:2FTS	81	U	ng/L	81	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: NEU020D Falls Lake @ Marker #1 Near Bayle Lab ID: E184903-13

Station ID: NEU020D FALLS LAKE @ MARKER #1 NE Matrix: Water

Date Collected: 11/30/18 10:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	12/11/18 11:07	12/14/18 5:31	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake @ Marker #1 Near Lab ID: E184903-14

Station ID: NEU020D FALLS LAKE @ MARKER #1 NE Matrix: Water

Date Collected: 11/30/18 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
39108-34-4	8:2FTS	81	U, J, QM-3	ng/L	81	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
754-91-6	FOSA	41	U, J, QM-3	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
375-22-4	PFBA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
375-73-5	PFBS	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
335-76-2	PFDA	41	U, J, QM-3	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
335-77-3	PFDS	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U, J, QM-3	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
375-95-1	PFNA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U, J, QM-1, QM-3	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
335-67-1	PFOA	41	U, J, QM-1	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake @ Marker #1 Near Lab ID: E184903-14

Station ID: NEU020D FALLS LAKE @ MARKER #1 NE Matrix: Water

Date Collected: 11/30/18 10:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS
2058-94-8	PFUdA	41	U	ng/L	41	12/11/18 11:07	12/14/18 5:51	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E184903-15

Station ID:

Matrix: Trip Blank - Water

Date Collected: 11/19/18 7:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U	ng/L	80	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
754-91-6	FOSA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
375-22-4	PFBA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
375-73-5	PFBS	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
335-76-2	PFDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
335-77-3	PFDS	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
375-95-1	PFNA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
335-67-1	PFOA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0060, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E184903-15

Station ID:

Matrix: Trip Blank - Water

Date Collected: 11/19/18 7:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS
2058-94-8	PFUdA	40	U	ng/L	40	12/11/18 11:07	12/14/18 6:12	ASBPROC-800 PFAS



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1812012 - S PFC

Blank (1812012-BLK1)

Prepared: 12/11/18 Analyzed: 12/13/18

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	80	"							U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	40	"							U
PFBA	U	40	"							U
PFBS	U	40	"							U
PFDA	U	40	"							U
PFDoA	U	40	"							U
PFDS	U	40	"							U
PFHpA	U	40	"							U
PFHpS	U	40	"							U
PFHxA	U	40	"							U
PFHxS	U	40	"							U
PFNA	U	40	"							U
PFNS	U	40	"							U
PFOA	U	40	"							U
PFOS	U	40	"							U
PFPeA	U	40	"							U
PFPeS	U	40	"							U
PFTTrDA	U	40	"							U
PFUdA	U	40	"							U

Blank (1812012-BLK2)

Prepared: 12/11/18 Analyzed: 12/14/18

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	80	"							U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	40	"							U
PFBA	U	40	"							U
PFBS	U	40	"							U
PFDA	U	40	"							U
PFDoA	U	40	"							U
PFDS	U	40	"							U
PFHpA	U	40	"							U
PFHpS	U	40	"							U



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1812012 - S PFC

Blank (1812012-BLK2)	Prepared: 12/11/18 Analyzed: 12/14/18				
PFHxA	U	40	ng/L		U
PFHxS	U	40	"		U
PFNA	U	40	"		U
PFNS	U	40	"		U
PFOA	U	40	"		U
PFOS	U	40	"		U
PFPeA	U	40	"		U
PFPeS	U	40	"		U
PFTTrDA	U	40	"		U
PFUdA	U	40	"		U

LCS (1812012-BS1)

ASBPROC-800 PFAS	Prepared: 12/11/18 Analyzed: 12/14/18				
4:2FTS	321	40	ng/L	374.00	85.9 67.1-125
6:2FTS	390	40	"	380.00	103 49.2-134
8:2FTS	335	80	"	384.00	87.3 56.4-136
FOSA	392	40	"	400.00	98.0 57.7-148
HFPO-DA	263	40	"	400.00	65.8 51.1-127
N-MeFOSAA	355	40	"	400.00	88.7 43.2-178
PFBA	367	40	"	400.00	91.9 67.9-118
PFBS	337	40	"	354.00	95.3 68.2-118
PFDA	346	40	"	400.00	86.5 47.4-162
PFDoA	357	40	"	400.00	89.3 56.5-155
PFDS	379	40	"	386.00	98.1 35.1-168
PFHpA	388	40	"	400.00	97.1 72.8-116
PFHpS	407	40	"	380.00	107 59.7-130
PFHxA	408	40	"	400.00	102 62.6-127
PFHxS	361	40	"	364.80	98.9 69.5-117
PFNA	383	40	"	400.00	95.8 64.1-128.4
PFNS	345	40	"	384.00	89.8 63.3-126
PFOA	413	40	"	400.00	103 66.7-122
PFOS	360	40	"	370.20	97.1 70.4-122
PFPeA	371	40	"	400.00	92.8 72-115
PFPeS	349	40	"	376.00	92.7 69-117
PFTTrDA	374	40	"	400.00	93.6 32.2-215
PFUdA	447	40	"	400.00	112 65.8-142



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Project: 19-0060, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1812012 - S PFC

Matrix Spike (1812012-MS1)

Source: E184903-14

Prepared: 12/11/18 Analyzed: 12/14/18

ASBPROC-800 PFAS

4:2FTS	351	41	ng/L	395.35	U	88.8	70-133			
6:2FTS	366	41	"	401.69	U	91.1	58-143			
8:2FTS	508	82	"	405.92	U	125	66-126			QM-3
FOSA	412	41	"	422.83	U	97.5	61-138			QM-3
HFPO-DA	231	41	"	422.83	U	54.6	45-129			
N-MeFOSAA	425	41	"	422.83	U	100	47-169			
PFBA	360	41	"	422.83	U	85.2	60-141			
PFBS	345	41	"	374.21	U	92.3	62-135			
PFDA	461	41	"	422.83	U	109	53-156			QM-3
PFDoA	490	41	"	422.83	U	116	30-172			
PFDS	397	41	"	408.03	U	97.3	44-151			
PFHpA	364	41	"	422.83	U	86.1	75-122			
PFHpS	475	41	"	401.69	U	118	66-132			QM-3
PFHxA	375	41	"	422.83	U	88.6	64-138			
PFHxS	349	41	"	385.62	U	90.6	72-124			
PFNA	391	41	"	422.83	U	92.4	72-129			
PFNS	378	41	"	405.92	U	93.1	61-126			QM-3
PFOA	392	41	"	422.83	U	92.6	74-127			
PFOS	334	41	"	391.33	U	85.4	68-132			
PFPeA	373	41	"	422.83	U	88.3	75-122			
PFPeS	337	41	"	397.46	U	84.9	72-122			
PFTTrDA	445	41	"	422.83	U	105	10-193			
PFUdA	441	41	"	422.83	U	104	44-164			

Matrix Spike Dup (1812012-MSD1)

Source: E184903-14

Prepared: 12/11/18 Analyzed: 12/14/18

ASBPROC-800 PFAS

4:2FTS	300	39	ng/L	363.11	U	82.6	70-133	15.7	34	
6:2FTS	277	39	"	368.93	U	75.0	58-143	27.7	45	
8:2FTS	253	79	"	372.82	U	67.9	66-126	67.0	56	QM-3
FOSA	237	39	"	388.35	U	60.9	61-138	54.1	39	QM-3
HFPO-DA	201	39	"	388.35	U	51.7	45-129	13.9	57	
N-MeFOSAA	241	39	"	388.35	U	62.0	47-169	55.2	65	
PFBA	327	39	"	388.35	U	84.1	60-141	9.76	37	
PFBS	288	39	"	343.69	U	83.7	62-135	18.2	32	
PFDA	250	39	"	388.35	U	64.3	53-156	59.6	57	QM-3
PFDoA	304	39	"	388.35	U	78.2	30-172	46.9	56	
PFDS	243	39	"	374.76	U	64.8	44-151	48.2	66	
PFHpA	311	39	"	388.35	U	80.0	75-122	15.8	26	
PFHpS	357	39	"	368.93	U	96.7	66-132	28.4	28	QM-3



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1812012 - S PFC

Matrix Spike Dup (1812012-MSD1)	Source: E184903-14			Prepared: 12/11/18 Analyzed: 12/14/18						
PFHxA	344	39	ng/L	388.35	U	88.7	64-138	8.46	42	
PFHxS	300	39	"	354.17	U	84.8	72-124	15.1	32	
PFNA	289	39	"	388.35	U	74.5	72-129	29.9	31	
PFNS	216	39	"	372.82	U	57.9	61-126	54.6	35	QM-1, QM-3
PFOA	285	39	"	388.35	U	73.4	74-127	31.5	32	QM-1
PFOS	287	39	"	359.42	U	79.7	68-132	15.4	37	
PFPeA	318	39	"	388.35	U	81.9	75-122	16.0	27	
PFPeS	295	39	"	365.05	U	80.7	72-122	13.5	29	
PFTrDA	325	39	"	388.35	U	83.8	10-193	31.0	106	
PFUdA	282	39	"	388.35	U	72.7	44-164	43.7	48	

MRL Verification (1812012-PS1)

Prepared: 12/11/18 Analyzed: 12/14/18

ASBPROC-800 PFAS

4:2FTS	33.7	40	ng/L	37.400		90.1	47.1-145			Q-2, MRL-2, J
6:2FTS	11.5	40	"	38.000		30.2	29.2-154			MRL-2, Q-2, J
FOSA	31.5	40	"	40.000		78.7	37.7-168			MRL-2, Q-2, J
HFPO-DA	20.9	40	"	40.000		52.3	31.3-147			Q-2, MRL-2, J
N-MeFOSAA	27.7	40	"	40.000		69.2	23.2-198			MRL-2, Q-2, J
PFBA	35.6	40	"	40.000		89.1	47.9-138			Q-2, MRL-2, J
PFBS	30.3	40	"	35.400		85.5	48.2-138			Q-2, MRL-2, J
PFDA	68.1	40	"	40.000		170	27.4-182			MRL-2
PFDoA	43.8	40	"	40.000		109	36.5-175			MRL-2
PFDS	35.3	40	"	38.600		91.5	15.1-188			MRL-2, Q-2, J
PFHpA	27.1	40	"	40.000		67.7	52.8-136			Q-2, MRL-2, J
PFHpS	36.6	40	"	38.000		96.4	39.7-150			MRL-2, Q-2, J
PFHxA	36.8	40	"	40.000		92.0	42.6-147			Q-2, MRL-2, J
PFHxS	40.4	40	"	36.480		111	49.5-138			MRL-2
PFNA	57.0	40	"	40.000		142	44.1-148			MRL-2
PFNS	31.4	40	"	38.400		81.8	43.3-146			MRL-2, Q-2, J
PFOA	46.9	40	"	40.000		117	46.7-142			MRL-2
PFOS	41.6	40	"	37.020		112	50.4-142			MRL-2



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1812012 - S PFC

MRL Verification (1812012-PS1)

Prepared: 12/11/18 Analyzed: 12/14/18

PFPeA	38.9	40	ng/L	40.000		97.2	52-135			Q-2, MRL-2, J
PFPeS	35.0	40	"	37.600		93.2	49-137			MRL-2, Q-2, J
PFTTrDA	31.3	40	"	40.000		78.3	12.2-235			MRL-2, Q-2, J
PFUdA	40.0	40	"	40.000		99.9	45.8-162			MRL-2

MRL Verification (1812012-PS2)

Prepared: 12/11/18 Analyzed: 12/14/18

ASBPROC-800 PFAS

8:2FTS	251	80	ng/L	153.60		163	36.4-156			MRL-2, QR-2
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Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- Q-2 Result greater than MDL but less than MRL.
- QM-1 Matrix Spike Recovery less than method control limits
- QM-3 Matrix Spike Precision outside method control limits
- QR-2 MRL verification recovery greater than upper control limits.



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 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

February 15, 2019

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
 Project: 19-0093, Falls Lake PFAS

FROM: Diana Burdette
 OCS Analyst

THRU: Floyd Wellborn, Chief
 ASB Organic Chemistry Section

TO: Becky Allenbach

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Services Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Semi Volatile Organics (SVOA)

PFAS

ASBPROC-800 PFAS (Water)



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Sample Disposal Policy

Due to limited space for long term sample storage, ASB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.



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SAMPLES INCLUDED IN THIS REPORT

Project: 19-0093, Falls Lake PFAS

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
J189000 Neuse River at SR 2000 NR Falls	E185101-01	Water	12/17/18 09:00	12/19/18 12:15
J1100000 Flat Riv at SR 1004 NR Willardville	E185101-02	Water	12/17/18 11:15	12/19/18 12:15
J1210000 Knap of Reeds Crk at WWTP Outfa	E185101-03	Water	12/17/18 11:55	12/19/18 12:15
DUP J1210000 Knap of Reeds Crk at WWTP	E185101-04	Water	12/17/18 12:00	12/19/18 12:15
J1330000 Ellerbe Crk at SR 1636 NR Durham	E185101-05	Water	12/17/18 13:10	12/19/18 12:15
J0810000 ENO River at SR 1004 NR Durham	E185101-06	Water	12/17/18 12:45	12/19/18 12:15
Trip Blank	E185101-07	Trip Blank - Water	12/17/18 08:00	12/19/18 12:15
NEU018E Falls Lake @ Mouth Ledge Ck Nr	E185101-08	Water	12/17/18 09:50	12/19/18 12:15
NEU018E Falls Lake @ Mouth Ledge Ck Nr	E185101-09	Water	12/17/18 10:30	12/19/18 12:15
NEU020D Falls Lake @ Marker #1 Near Bayl	E185101-10	Water	12/17/18 11:10	12/19/18 12:15
MSD NEU020D Falls Lake @ Marker #1 Nea	E185101-11	Water	12/17/18 11:10	12/19/18 12:15
NEU013 Falls Lake at I-85 near Northside NC	E185101-12	Water	12/17/18 10:15	12/19/18 12:15
DUP NEU013 Falls Lake at I-85 near Northsic	E185101-13	Water	12/17/18 10:15	12/19/18 12:15
NEU0171B Falls Lake @ Mth Little Lick Ck	E185101-14	Water	12/17/18 11:10	12/19/18 12:15
Trip Blank	E185101-15	Trip Blank - Water	12/17/18 09:00	12/19/18 12:15



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DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
H-7 Recommended preparation holding time exceeded
J The identification of the analyte is acceptable; the reported value is an estimate.
Q-2 Result greater than MDL but less than MRL.
QC-3 Analyte calibration criteria not met
QL-3 Laboratory Control Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

- ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.
Refer to the certificate and scope of accreditation AT-1644 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>
- NR The EPA Region 4 Laboratory has not requested accreditation for this test.



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D.A.R.T. Id: 18-0033

Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J189000 Neuse River at SR 2000 NR Falls Lab ID: E185101-01

Station ID: J189000 NEUSE RIVER AT SR 2000 NR FAL Matrix: Water

Date Collected: 12/17/18 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
39108-34-4	8:2FTS	82	U, J, H-7, QC-3, QL-3	ng/L	82	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
754-91-6	FOSA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
375-22-4	PFBA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
375-73-5	PFBS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
335-76-2	PFDA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
335-77-3	PFDS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
375-95-1	PFNA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
335-67-1	PFOA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS



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 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J189000 Neuse River at SR 2000 NR Falls Lab ID: E185101-01

Station ID: J189000 NEUSE RIVER AT SR 2000 NR FALL Matrix: Water

Date Collected: 12/17/18 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS
2058-94-8	PFUdA	82	U, J, H-7	ng/L	82	1/30/19 6:52	2/11/19 7:24	ASBPROC-800 PFAS



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Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J1100000 Flat Riv at SR 1004 NR Willardville Lab ID: E185101-02

Station ID: J1100000 FLAT RIV AT SR 1004 NR WILLAF Matrix: Water

Date Collected: 12/17/18 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U, J, QC-3, QL-3, H-7	ng/L	80	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
754-91-6	FOSA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
375-22-4	PFBA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
335-76-2	PFDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
335-77-3	PFDS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
375-95-1	PFNA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
335-67-1	PFOA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J1100000 Flat Riv at SR 1004 NR Willardville Lab ID: E185101-02

Station ID: J1100000 FLAT RIV AT SR 1004 NR WILLAF Matrix: Water

Date Collected: 12/17/18 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS
2058-94-8	PFUdA	80	U, J, H-7	ng/L	80	1/30/19 6:52	2/11/19 7:45	ASBPROC-800 PFAS



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Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J1210000 Knap of Reeds Crk at WWTP Outfall Lab ID: E185101-03

Station ID: J1210000 KNAP OF REEDS CRK AT WWTP Matrix: Water

Date Collected: 12/17/18 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
39108-34-4	8:2FTS	78	U, J, H-7, QC-3, QL-3	ng/L	78	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
754-91-6	FOSA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
375-22-4	PFBA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
375-73-5	PFBS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
335-76-2	PFDA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
335-77-3	PFDS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
375-95-1	PFNA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
335-67-1	PFOA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
1763-23-1	PFOS	22	J, H-7, Q-2	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J1210000 Knap of Reeds Crk at WWTP Outfall Lab ID: E185101-03

Station ID: J1210000 KNAP OF REEDS CRK AT WWTP Matrix: Water

Date Collected: 12/17/18 11:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS
2058-94-8	PFUdA	78	U, J, H-7	ng/L	78	1/30/19 6:52	2/11/19 8:12	ASBPROC-800 PFAS



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Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: DUP J1210000 Knap of Reeds Crk at WWTP Lab ID: E185101-04

Station ID: DUP J1210000 KNAP OF REEDS CRK AT W Matrix: Water

Date Collected: 12/17/18 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
27619-97-2	6:2FTS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
39108-34-4	8:2FTS	77	U, J, QC-3, QL-3, H-7	ng/L	77	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
754-91-6	FOSA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	150	U, J, H-7	ng/L	150	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
375-22-4	PFBA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
375-73-5	PFBS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
335-76-2	PFDA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
307-55-1	PFDoA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
335-77-3	PFDS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
375-85-9	PFHpA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
375-92-8	PFHpS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
307-24-4	PFHxA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
355-46-4	PFHxS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
375-95-1	PFNA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
68259-12-1	PFNS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
335-67-1	PFOA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
1763-23-1	PFOS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
2706-90-3	PFPeA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: DUP J1210000 Knap of Reeds Crk at WWTP Lab ID: E185101-04

Station ID: DUP J1210000 KNAP OF REEDS CRK AT W Matrix: Water

Date Collected: 12/17/18 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS
2058-94-8	PFUdA	77	U, J, H-7	ng/L	77	1/30/19 6:52	2/11/19 8:31	ASBPROC-800 PFAS



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Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J1330000 Ellerbe Crk at SR 1636 NR Durham Lab ID: E185101-05

Station ID: J1330000 ELLERBE CRK AT SR 1636 NR DU Matrix: Water

Date Collected: 12/17/18 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U, J, H-7, QC-3, QL-3	ng/L	80	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
754-91-6	FOSA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
375-22-4	PFBA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
335-76-2	PFDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
335-77-3	PFDS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
375-95-1	PFNA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
335-67-1	PFOA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
1763-23-1	PFOS	17	J, H-7, Q-2	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J1330000 Ellerbe Crk at SR 1636 NR Durham Lab ID: E185101-05

Station ID: J1330000 ELLERBE CRK AT SR 1636 NR DU Matrix: Water

Date Collected: 12/17/18 13:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS
2058-94-8	PFUdA	80	U, J, H-7	ng/L	80	1/30/19 6:52	2/11/19 8:51	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J0810000 ENO River at SR 1004 NR Durham Lab ID: E185101-06

Station ID: J0810000 ENO RIVER AT SR 1004 NR DURH Matrix: Water

Date Collected: 12/17/18 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
27619-97-2	6:2FTS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
39108-34-4	8:2FTS	78	U, J, H-7, QC-3, QL-3	ng/L	78	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
754-91-6	FOSA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
375-22-4	PFBA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
375-73-5	PFBS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
335-76-2	PFDA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
307-55-1	PFDoA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
335-77-3	PFDS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
375-85-9	PFHpA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
375-92-8	PFHpS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
307-24-4	PFHxA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
355-46-4	PFHxS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
375-95-1	PFNA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
68259-12-1	PFNS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
335-67-1	PFOA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
1763-23-1	PFOS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
2706-90-3	PFPeA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: J0810000 ENO River at SR 1004 NR Durham Lab ID: E185101-06

Station ID: J0810000 ENO RIVER AT SR 1004 NR DURH Matrix: Water

Date Collected: 12/17/18 12:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	39	U, J, H-7	ng/L	39	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS
2058-94-8	PFUdA	78	U, J, H-7	ng/L	78	1/30/19 6:52	2/11/19 9:10	ASBPROC-800 PFAS



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Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E185101-07

Station ID:

Matrix: Trip Blank - Water

Date Collected: 12/17/18 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U, J, H-7, QC-3, QL-3	ng/L	80	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
754-91-6	FOSA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
375-22-4	PFBA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
335-76-2	PFDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
335-77-3	PFDS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
375-95-1	PFNA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
335-67-1	PFOA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E185101-07

Station ID:

Matrix: Trip Blank - Water

Date Collected: 12/17/18 8:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS
2058-94-8	PFUdA	80	U, J, H-7	ng/L	80	1/30/19 6:52	2/11/19 11:27	ASBPROC-800 PFAS



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Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Ck Nr C Lab ID: E185101-08

Station ID: NEU018E FALLS LAKE @ MOUTH LEDGE Matrix: Water

Date Collected: 12/17/18 9:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U, J, H-7, QC-3, QL-3	ng/L	80	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
754-91-6	FOSA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
375-22-4	PFBA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
335-76-2	PFDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
335-77-3	PFDS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
375-95-1	PFNA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
335-67-1	PFOA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Ck Nr C Lab ID: E185101-08

Station ID: NEU018E FALLS LAKE @ MOUTH LEDGE Matrix: Water

Date Collected: 12/17/18 9:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS
2058-94-8	PFUdA	80	U, J, H-7	ng/L	80	1/30/19 6:52	2/11/19 11:46	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 18-0033

Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Ck Nr C Lab ID: E185101-09

Station ID: NEU018E FALLS LAKE @ MOUTH LEDGE Matrix: Water

Date Collected: 12/17/18 10:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
39108-34-4	8:2FTS	82	U, J, H-7, QC-3, QL-3	ng/L	82	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
754-91-6	FOSA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
375-22-4	PFBA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
375-73-5	PFBS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
335-76-2	PFDA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
335-77-3	PFDS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
375-95-1	PFNA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
335-67-1	PFOA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS



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 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU018E Falls Lake @ Mouth Ledge Ck Nr C Lab ID: E185101-09

Station ID: NEU018E FALLS LAKE @ MOUTH LEDGE Matrix: Water

Date Collected: 12/17/18 10:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS
2058-94-8	PFUdA	82	U, J, H-7	ng/L	82	1/30/19 6:52	2/11/19 12:07	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU020D Falls Lake @ Marker #1 Near Bayle Lab ID: E185101-10

Station ID: NEU020D FALLS LAKE @ MARKER #1 NE Matrix: Water

Date Collected: 12/17/18 11:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U, J, H-7, QC-3, QL-3	ng/L	80	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
754-91-6	FOSA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
375-22-4	PFBA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
335-76-2	PFDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
335-77-3	PFDS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
375-95-1	PFNA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
335-67-1	PFOA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU020D Falls Lake @ Marker #1 Near Bayle Lab ID: E185101-10

Station ID: NEU020D FALLS LAKE @ MARKER #1 NE Matrix: Water

Date Collected: 12/17/18 11:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS
2058-94-8	PFUdA	80	U, J, H-7	ng/L	80	1/30/19 6:52	2/11/19 12:27	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake @ Marker #1 Near Lab ID: E185101-11

Station ID: MSD NEU020D FALLS LAKE @ MARKER # Matrix: Water

Date Collected: 12/17/18 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
27619-97-2	6:2FTS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
39108-34-4	8:2FTS	77	U, J, H-7, QC-3, QL-3	ng/L	77	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
754-91-6	FOSA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	150	U, J, H-7	ng/L	150	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
375-22-4	PFBA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
375-73-5	PFBS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
335-76-2	PFDA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
307-55-1	PFDoA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
335-77-3	PFDS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
375-85-9	PFHpA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
375-92-8	PFHpS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
307-24-4	PFHxA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
355-46-4	PFHxS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
375-95-1	PFNA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
68259-12-1	PFNS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
335-67-1	PFOA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
1763-23-1	PFOS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
2706-90-3	PFPeA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS



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Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: MSD NEU020D Falls Lake @ Marker #1 Near Lab ID: E185101-11

Station ID: MSD NEU020D FALLS LAKE @ MARKER # Matrix: Water

Date Collected: 12/17/18 11:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	38	U, J, H-7	ng/L	38	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS
2058-94-8	PFUdA	77	U, J, H-7	ng/L	77	1/30/19 6:52	2/11/19 12:46	ASBPROC-800 PFAS



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Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU013 Falls Lake at I-85 near Northside NC Lab ID: E185101-12

Station ID: NEU013 FALLS LAKE AT I-85 NEAR NORTH Matrix: Water

Date Collected: 12/17/18 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
39108-34-4	8:2FTS	82	U, J, H-7, QC-3, QL-3	ng/L	82	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
754-91-6	FOSA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
375-22-4	PFBA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
375-73-5	PFBS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
335-76-2	PFDA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
335-77-3	PFDS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
375-95-1	PFNA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
335-67-1	PFOA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS



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 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU013 Falls Lake at I-85 near Northside NC **Lab ID:** E185101-12

Station ID: NEU013 FALLS LAKE AT I-85 NEAR NORT **Matrix:** Water

Date Collected: 12/17/18 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS
2058-94-8	PFUdA	82	U, J, H-7	ng/L	82	1/30/19 6:52	2/11/19 13:06	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 18-0033

Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake at I-85 near Northsid Lab ID: E185101-13

Station ID: DUP NEU013 FALLS LAKE AT I-85 NEAR N Matrix: Water

Date Collected: 12/17/18 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
27619-97-2	6:2FTS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
39108-34-4	8:2FTS	81	U, J, H-7, QC-3, QL-3	ng/L	81	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
754-91-6	FOSA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
375-22-4	PFBA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
375-73-5	PFBS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
335-76-2	PFDA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
307-55-1	PFDoA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
335-77-3	PFDS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
375-85-9	PFHpA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
375-92-8	PFHpS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
307-24-4	PFHxA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
355-46-4	PFHxS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
375-95-1	PFNA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
68259-12-1	PFNS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
335-67-1	PFOA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
1763-23-1	PFOS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
2706-90-3	PFPeA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: DUP NEU013 Falls Lake at I-85 near Northsid Lab ID: E185101-13

Station ID: DUP NEU013 FALLS LAKE AT I-85 NEAR N Matrix: Water

Date Collected: 12/17/18 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	41	U, J, H-7	ng/L	41	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS
2058-94-8	PFUdA	81	U, J, H-7	ng/L	81	1/30/19 6:52	2/11/19 13:25	ASBPROC-800 PFAS



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D.A.R.T. Id: 18-0033

Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake @ Mth Little Lick Ck N Lab ID: E185101-14

Station ID: NEU0171B FALLS LAKE @ MTH LITTLE L Matrix: Water

Date Collected: 12/17/18 11:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
757124-72-4	4:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U, J, H-7, QC-3, QL-3	ng/L	80	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
754-91-6	FOSA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
375-22-4	PFBA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
335-76-2	PFDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
335-77-3	PFDS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
375-95-1	PFNA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
335-67-1	PFOA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS



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 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: NEU0171B Falls Lake @ Mth Little Lick Ck N Lab ID: E185101-14

Station ID: NEU0171B FALLS LAKE @ MTH LITTLE L Matrix: Water

Date Collected: 12/17/18 11:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS
2058-94-8	PFUdA	80	U, J, H-7	ng/L	80	1/30/19 6:52	2/11/19 13:45	ASBPROC-800 PFAS



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 18-0033

Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E185101-15

Station ID:

Matrix: Trip Blank - Water

Date Collected: 12/17/18 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
27619-97-2	6:2FTS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
39108-34-4	8:2FTS	80	U, J, H-7, QC-3, QL-3	ng/L	80	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
754-91-6	FOSA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
13252-13-6	HFPO-DA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
2355-31-9	N-MeFOSAA	160	U, J, H-7	ng/L	160	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
375-22-4	PFBA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
375-73-5	PFBS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
335-76-2	PFDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
307-55-1	PFDoA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
335-77-3	PFDS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
375-85-9	PFHpA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
375-92-8	PFHpS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
307-24-4	PFHxA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
355-46-4	PFHxS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
375-95-1	PFNA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
68259-12-1	PFNS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
335-67-1	PFOA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
1763-23-1	PFOS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
2706-90-3	PFPeA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS



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Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0093, Falls Lake PFAS

Sample ID: Trip Blank

Lab ID: E185101-15

Station ID:

Matrix: Trip Blank - Water

Date Collected: 12/17/18 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2706-91-4	PFPeS	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
72629-94-8	PFTTrDA	40	U, J, H-7	ng/L	40	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS
2058-94-8	PFUdA	80	U, J, H-7	ng/L	80	1/30/19 6:52	2/11/19 14:05	ASBPROC-800 PFAS



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 D.A.R.T. Id: 18-0033
 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1901001 - S PFC

Blank (1901001-BLK1)

Prepared: 01/30/19 Analyzed: 02/11/19

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	80	"							QC-3, QL-3, U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	160	"							U
PFBA	U	40	"							U
PFBS	U	40	"							U
PFDA	U	40	"							U
PFDoA	U	40	"							U
PFDS	U	40	"							U
PFHpA	U	40	"							U
PFHpS	U	40	"							U
PFHxA	U	40	"							U
PFHxS	U	40	"							U
PFNA	U	40	"							U
PFNS	U	40	"							U
PFOA	U	40	"							U
PFOS	U	40	"							U
PFPeA	U	40	"							U
PFPeS	U	40	"							U
PFTTrDA	U	40	"							U
PFUdA	U	80	"							U

Blank (1901001-BLK2)

Prepared: 01/30/19 Analyzed: 02/11/19

ASBPROC-800 PFAS

4:2FTS	U	40	ng/L							U
6:2FTS	U	40	"							U
8:2FTS	U	80	"							QC-3, QL-3, U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-MeFOSAA	U	160	"							U
PFBA	U	40	"							U
PFBS	U	40	"							U
PFDA	U	40	"							U
PFDoA	U	40	"							U
PFDS	U	40	"							U



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1901001 - S PFC

Blank (1901001-BLK2)				Prepared: 01/30/19 Analyzed: 02/11/19						
PFHpA	U	40	ng/L							U
PFHpS	U	40	"							U
PFHxA	U	40	"							U
PFHxS	U	40	"							U
PFNA	U	40	"							U
PFNS	U	40	"							U
PFOA	U	40	"							U
PFOS	U	40	"							U
PFPeA	U	40	"							U
PFPeS	U	40	"							U
PFTTrDA	U	40	"							U
PFUdA	U	80	"							U

LCS (1901001-BS1)

Prepared: 01/30/19 Analyzed: 02/11/19

ASBPROC-800 PFAS

4:2FTS	330	40	ng/L	374.00		88.2	67.1-125			
6:2FTS	420	40	"	380.00		110	49.2-134			
8:2FTS	476	80	"	384.00		124	56.4-136			QC-3, QL-3
FOSA	315	40	"	400.00		78.8	57.7-148			
HFPO-DA	339	40	"	400.00		84.8	51.1-127			
N-MeFOSAA	416	160	"	400.00		104	43.2-178			
PFBA	340	40	"	400.00		85.0	67.9-118			
PFBS	351	40	"	354.00		99.2	68.2-118			
PFDA	365	40	"	400.00		91.3	47.4-162			
PFDoA	310	40	"	400.00		77.5	56.5-155			
PFDS	320	40	"	386.00		83.0	35.1-168			
PFHpA	368	40	"	400.00		92.1	72.8-116			
PFHpS	376	40	"	380.00		98.8	59.7-130			
PFHxA	355	40	"	400.00		88.7	62.6-127			
PFHxS	352	40	"	364.80		96.4	69.5-117			
PFNA	371	40	"	400.00		92.8	64.1-128.4			
PFNS	338	40	"	384.00		88.0	63.3-126			
PFOA	359	40	"	400.00		89.7	66.7-122			
PFOS	364	40	"	370.20		98.3	70.4-122			
PFPeA	362	40	"	400.00		90.4	72-115			
PFPeS	346	40	"	376.00		92.0	69-117			
PFTTrDA	230	40	"	400.00		57.5	32.2-215			
PFUdA	333	80	"	400.00		83.2	65.8-142			



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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1901001 - S PFC

LCS Dup (1901001-BSD1)

Prepared: 01/30/19 Analyzed: 02/11/19

ASBPROC-800 PFAS

4:2FTS	325	40	ng/L	374.00		86.8	67.1-125	1.56	30	
6:2FTS	386	40	"	380.00		102	49.2-134	8.42	30	
8:2FTS	311	80	"	384.00		81.1	56.4-136	41.7	30	QC-3, QL-3
FOSA	351	40	"	400.00		87.7	57.7-148	10.7	30	
HFPO-DA	328	40	"	400.00		82.0	51.1-127	3.25	30	
N-MeFOSAA	437	160	"	400.00		109	43.2-178	4.95	30	
PFBA	354	40	"	400.00		88.4	67.9-118	3.91	30	
PFBS	325	40	"	354.00		91.9	68.2-118	7.65	30	
PFDA	363	40	"	400.00		90.8	47.4-162	0.563	30	
PFDoA	328	40	"	400.00		82.1	56.5-155	5.71	30	
PFDS	315	40	"	386.00		81.7	35.1-168	1.53	30	
PFHpA	370	40	"	400.00		92.6	72.8-116	0.533	30	
PFHpS	316	40	"	380.00		83.1	59.7-130	17.3	30	
PFHxA	338	40	"	400.00		84.5	62.6-127	4.82	30	
PFHxS	349	40	"	364.80		95.7	69.5-117	0.769	30	
PFNA	356	40	"	400.00		89.0	64.1-128.4	4.27	30	
PFNS	326	40	"	384.00		84.9	63.3-126	3.53	30	
PFOA	370	40	"	400.00		92.6	66.7-122	3.08	30	
PFOS	338	40	"	370.20		91.4	70.4-122	7.26	30	
PFPeA	362	40	"	400.00		90.4	72-115	0.0448	30	
PFPeS	343	40	"	376.00		91.2	69-117	0.800	30	
PFTTrDA	240	40	"	400.00		60.0	32.2-215	4.28	30	
PFUdA	329	80	"	400.00		82.1	65.8-142	1.23	30	

Duplicate (1901001-DUP1)

Source: E185101-14

Prepared: 01/30/19 Analyzed: 02/11/19

ASBPROC-800 PFAS

4:2FTS	U	38	ng/L		U				200	H-7, J, U
6:2FTS	U	38	"		U				200	H-7, J, U
8:2FTS	U	77	"		U				200	H-7, J, QC-3, QL-3, U
FOSA	U	38	"		U				200	H-7, J, U
HFPO-DA	U	38	"		U				200	H-7, J, U
N-MeFOSAA	U	150	"		U				200	H-7, J, U
PFBA	U	38	"		U				200	H-7, J, U
PFBS	U	38	"		U				200	H-7, J, U
PFDA	U	38	"		U				200	H-7, J, U
PFDoA	U	38	"		U				200	H-7, J, U
PFDS	U	38	"		U				200	H-7, J, U



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 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 18-0033
 Project: 19-0093, Falls Lake PFAS - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1901001 - S PFC

Duplicate (1901001-DUP1)	Source: E185101-14			Prepared: 01/30/19 Analyzed: 02/11/19					
PFHpA	U	38	ng/L		U			200	H-7, J, U
PFHpS	U	38	"		U			200	H-7, J, U
PFHxA	U	38	"		U			200	H-7, J, U
PFHxS	U	38	"		U			200	H-7, J, U
PFNA	U	38	"		U			200	H-7, J, U
PFNS	U	38	"		U			200	H-7, J, U
PFOA	U	38	"		U			200	H-7, J, U
PFOS	U	38	"		U			200	H-7, J, U
PFPeA	U	38	"		U			200	H-7, J, U
PFPeS	U	38	"		U			200	H-7, J, U
PFTrDA	U	38	"		U			200	J, H-7, U
PFUdA	U	77	"		U			200	H-7, J, U

MRL Verification (1901001-PS1)

Prepared: 01/30/19 Analyzed: 02/11/19

ASBPROC-800 PFAS

4:2FTS	33.8	40	ng/L	37.400	90.4	47.1-145	MRL-2, Q-2, J
6:2FTS	29.8	40	"	38.000	78.3	29.2-154	MRL-2, Q-2, J
FOSA	36.7	40	"	40.000	91.8	37.7-168	MRL-2, Q-2, J
HFPO-DA	19.6	40	"	40.000	48.9	31.3-147	MRL-2, Q-2, J
PFBA	43.9	40	"	40.000	110	47.9-138	MRL-2, Q-2, J
PFBS	29.4	40	"	35.400	83.0	48.2-138	MRL-2, Q-2, J
PFDA	36.6	40	"	40.000	91.6	27.4-182	MRL-2, Q-2, J
PFDoA	32.0	40	"	40.000	80.1	36.5-175	MRL-2, Q-2, J
PFDS	38.8	40	"	38.600	101	15.1-188	MRL-2, Q-2, J
PFHpA	35.1	40	"	40.000	87.7	52.8-136	MRL-2, Q-2, J
PFHpS	23.5	40	"	38.000	61.9	39.7-150	MRL-2, Q-2, J
PFHxA	33.6	40	"	40.000	83.9	42.6-147	MRL-2, Q-2, J
PFHxS	34.8	40	"	36.480	95.5	49.5-138	MRL-2, Q-2, J
PFNA	35.2	40	"	40.000	87.9	44.1-148	MRL-2, Q-2, J
PFNS	27.2	40	"	38.400	70.9	43.3-146	MRL-2, Q-2, J



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1901001 - S PFC

MRL Verification (1901001-PS1)

Prepared: 01/30/19 Analyzed: 02/11/19

PFOA	37.5	40	ng/L	40.000		93.7	46.7-142			MRL-2, Q-2, J
PFOS	34.0	40	"	37.020		91.7	50.4-142			MRL-2, Q-2, J
PFPeA	36.0	40	"	40.000		89.9	52-135			MRL-2, Q-2, J
PFPeS	32.3	40	"	37.600		86.0	49-137			MRL-2, Q-2, J
PFTTrDA	40.3	40	"	40.000		101	12.2-235			MRL-2

MRL Verification (1901001-PS2)

Prepared: 01/30/19 Analyzed: 02/11/19

ASBPROC-800 PFAS

8:2FTS	174	80	ng/L	153.60		114	36.4-156			MRL-2, QC-3
N-MeFOSAA	181	160	"	160.00		113	23.2-198			MRL-2
PFUdA	141	80	"	160.00		88.0	45.8-162			MRL-2



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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
H-7	Recommended preparation holding time exceeded
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-2	MRL verification for Non-Potable Water matrix
Q-2	Result greater than MDL but less than MRL.
QC-3	Analyte calibration criteria not met
QL-3	Laboratory Control Spike Precision outside method control limits