

29 June 2022

Mr. Robert Cilek
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

**Subject: Site-Wide Supplemental Assessment
Former Florida State Fire College (ERIC_5641)
1501 W Silver Springs Blvd, Ocala, Marion County, Florida
FDEP Contract HW683, Task Assignment SA160, Subtask 5**

Dear Mr. Cilek,

Geosyntec Consultants, Inc. (Geosyntec) has prepared this letter report to summarize the results of the March and April 2022 soil, sediment, surface water, and groundwater assessment activities at the Former Florida State Fire College (herein, the “Site”) located in Ocala, Florida. The objective of this investigation was to evaluate the extent and magnitude of Site media that were previously determined to be impacted with per- and polyfluoroalkyl substances (PFAS).

In accordance with Subtask 5 of Task Assignment SA160, Geosyntec prepared tables summarizing soil, sediment, surface water, and groundwater sampling results (**Table 1 to Table 8**). Geosyntec also prepared figures summarizing analytical results for soil, sediment, surface water, and groundwater (**Figure 1 to Figure 28**). The laboratory analytical reports from the most recent site assessment activities are included in **Attachment A**.

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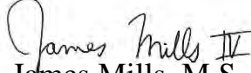
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If you have any questions or comments or require additional information, please contact Eric Sager at 727-330-9952.

Sincerely,


James Mills, M.S.
Professional


Eric Sager, P.G. (FL)
Senior Principal Geologist

Copy: David Meyers, FDEP
Todd Kafka, Geosyntec

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TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE, AND CRITERIA
Former Florida State Fire College

Soil Samples							
Location ID	Sample ID	Matrix	Depth (ft BLS)	Method	Analyses	Rationale	Criteria
SB-1	SB-1 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
	SB-1 (0.5-2')		0.5-2				
	SB-1 (2-4')		2-4				
	SB-1 (4-6')		4-6	DPT			
	SB-1 (6-8')		6-8				
	SB-1 (10-12')		10-12				
	SB-1 (13-15')		13-15				
	SB-1 (23-25')		23-25				
SB-1 (33-35')	33-35						
SB-2	SB-2 (0.5-2')		0.5-2	HA			
	SB-2 (2-4')		2-4				
	SB-2 (4-6')		4-6	DPT			
	SB-2 (6-8')		6-8				
	SB-2 (10-12')		10-12				
	SB-2 (13-15')		13-15				
	SB-2 (23-25')		23-25				
SB-2 (28-30')	28-30						
SB-3	SB-3 (0.5-2')	0.5-2	HA				
	SB-3 (2-4')	2-4					
	SB-3 (4-6')	4-6	DPT				
	SB-3 (6-8')	6-8					
	SB-3 (10-12')	10-12					
	SB-3 (13-15')	13-15					
	SB-3 (23-25')	23-25					
SB-3 (28-30')	28-30						
SB-4	SB-4 (0.5-2')	0.5-2	HA				
	SB-4 (2-4')	2-4					
	SB-4 (4-6')	4-6	DPT				
	SB-4 (6-8')	6-8					
	SB-4 (10-12')	10-12					
	SB-4 (13-15')	13-15					
	SB-4 (23-25')	23-25					
SB-4 (30-32')	30-32						
SB-5	SB-5 (0-0.5')	0-0.5	HA				
	SB-5 (0.5-2')	0.5-2					
	SB-5 (2-4')	2-4					
	SB-5 (4-6')	4-6	DPT				
	SB-5 (6-8')	6-8					
	SB-5 (10-12')	10-12					
	SB-5 (13-15')	13-15					
	SB-5 (23-25')	23-25					
SB-5 (28-30')	28-30						
SB-6	SB-6 (0-0.5')	0-0.5	HA				
	SB-6 (0.5-2')	0.5-2					
	SB-6 (2-4')	2-4					
	SB-6 (4-6')	4-6	DPT				
	SB-6 (6-8')	6-8					
	SB-6 (10-12')	10-12					
	SB-6 (13-15')	13-15					
	SB-6 (23-25')	23-25					
SB-6 (28-30')	28-30						
SB-7	SB-7 (0.5-2')	0.5-2	HA				
	SB-7 (2-4')	2-4					
	SB-7 (4-6')	4-6	DPT				
	SB-7 (6-8')	6-8					
	SB-7 (10-12')	10-12					
	SB-7 (13-15')	13-15					
	SB-7 (23-25')	23-25					
SB-7 (28-30')	28-30						
SB-8	SB-8 (0-0.5')	0-0.5	HA				
	SB-8 (0.5-2')	0.5-2					
	SB-8 (2-4')	2-4					
	SB-8 (4-6')	4-6					
SB-9	SB-9 (0-0.5')	0-0.5	HA				
	SB-9 (0.5-2')	0.5-2					
	SB-9 (2-4')	2-4					
	SB-9 (4-6')	4-6					

TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE, AND CRITERIA
Former Florida State Fire College

Location ID	Sample ID	Matrix	Depth (ft BLS)	Method	Analyses	Rationale	Criteria
SB-10	SB-10 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
	SB-10 (0.5-2')		0.5-2				
	SB-10 (2-4')		2-4				
	SB-10 (4-6')		4-6				
SB-11	SB-11 (0-0.5')		0-0.5				
	SB-11 (0.5-2')		0.5-2				
SB-12	SB-12 (0-0.5')		0-0.5				
	SB-12 (0.5-2')		0.5-2				
SB-13	SB-13 (0-0.5')		0-0.5				
	SB-13 (0.5-2')		0.5-2				
	SB-13 (2-4')		2-4				
SB-14	SB-14 (0.5-2')		0.5-2				
	SB-14 (2-4')		2-4				
SB-15	SB-15 (0.5-2')		0.5-2				
	SB-15 (2-4')		2-4				
SB-16	SB-16 (0-0.5')		0-0.5				
	SB-16 (0.5-2')		0.5-2				
	SB-16 (2-4')		2-4				
SB-17	SB-17 (0-0.5')		0-0.5				
	SB-17 (0.5-2')		0.5-2				
	SB-17 (2-4')		2-4				
SB-18	SB-18 (0-0.5')		0-0.5				
	SB-18 (0.5-2')		0.5-2				
	SB-18 (2-4')		2-4				
SB-19	SB-19 (0-0.5')		0-0.5				
	SB-19 (0.5-2')		0.5-2				
	SB-19 (2-4')		2-4				
SB-20	SB-20 (0-0.5')		0-0.5				
	SB-20 (0.5-2')		0.5-2				
	SB-20 (2-4')		2-4				
SB-21	SB-21 (0-0.5')		0-0.5				
	SB-21 (0.5-2')		0.5-2				
	SB-21 (2-4')		2-4				
SB-22	SB-22 (0-0.5')		0-0.5				
	SB-22 (0.5-2')		0.5-2				
	SB-22 (2-4')	2-4					
SB-23	SB-23 (0-0.5')	0-0.5					
	SB-23 (0.5-2')	0.5-2					
	SB-23 (2-4')	2-4					
SB-24	SB-24 (0-0.5')	0-0.5					
	SB-24 (0.5-2')	0.5-2					
	SB-24 (2-4')	2-4					
SB-25	SB-25 (0-0.5')	0-0.5					
	SB-25 (0.5-2')	0.5-2					
SB-26	SB-26 (0-0.5')	0-0.5					
	SB-26 (0.5-2')	0.5-2					
SB-27	SB-27 (0-0.5')	0-0.5					
	SB-27 (0.5-2')	0.5-2					
	SB-27 (2-3')	2-3					
	SB-27 (4-6')	4-6					
SB-28	SB-28 (0.5-2')	0.5-2					
	SB-28 (2-4')	2-4					
SB-29	SB-29 (0.5-2')	0.5-2					
	SB-29 (2-4')	2-4					
SB-30	SB-30 (0.5-2')	0.5-2					
	SB-30 (2-4')	2-4					
SB-31	SB-31 (0-0.5')	0-0.5					
	SB-31 (0.5-2')	0.5-2					
	SB-31 (2-4')	2-4					
SB-32	SB-32 (0-0.5')	0-0.5					
	SB-32 (0.5-2')	0.5-2					
	SB-32 (2-4')	2-4					
SB-33	SB-33 (0-0.5')	0-0.5					
	SB-33 (0.5-2')	0.5-2					
	SB-33 (2-4')	2-4					
SB-34	SB-34 (0.5-2')	0.5-2					
	SB-34 (2-4')	2-4					
SB-35	SB-35 (0.5-2')	0.5-2					
	SB-35 (2-3')	2-3					

TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE, AND CRITERIA
Former Florida State Fire College

Location ID	Sample ID	Matrix	Depth (ft BLS)	Method	Analyses	Rationale	Criteria
SB-36	SB-36 (0.5-2')	Soil	0.5-2	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
	SB-36 (2-4')		2-4				
SB-37	SB-37 (0-0.5')		0-0.5				
	SB-37 (0.5-2')		0.5-2				
	SB-37 (2-4')		2-4				
SB-38	SB-38 (0-0.5')		0-0.5				
	SB-38 (0.5-2')		0.5-2				
SB-39	SB-39 (0-0.5')		0-0.5				
	SB-39 (0.5-2')		0.5-2				
	SB-39 (2-4')		2-4				
SB-40	SB-40 (0.5-2')		0.5-2				
	SB-40 (2-4')		2-4				
SB-41	SB-41 (0-0.5')		0-0.5				
	SB-41 (0.5-2')		0.5-2				
	SB-41 (2-4')		2-4				
SB-42	SB-42 (0-0.5')		0-0.5				
	SB-42 (0.5-2')		0.5-2				
	SB-42 (2-4')		2-4				
	SB-42 (4-6')		4-6				
SB-43	SB-43 (0-0.5')		0-0.5				
	SB-43 (0.5-2')		0.5-2				
	SB-43 (2-4')		2-4				
	SB-43 (4-6')		4-6				
SB-44	SB-44 (0-0.5')		0-0.5				
	SB-44 (0.5-2')		0.5-2				
	SB-44 (2-4')		2-4				
	SB-44 (4-6')		4-6				
SB-45	SB-45 (0-0.5')		0-0.5				
	SB-45 (0.5-2')		0.5-2				
	SB-45 (2-4')		2-4				
	SB-45 (4-6')		4-6				
	SB-45 (6-8')		6-8				
	SB-45 (10-12')		10-12				
	SB-45 (13-15')		13-15				
	SB-45 (23-25')		23-25				
SB-45 (28-30')	28-30						
SB-46	SB-46 (0.5-2')		0.5-2				
	SB-46 (2-4')		2-4				
SB-47	SB-47 (0.5-2')		0.5-2				
	SB-47 (2-4')		2-4				
SB-48	SB-48 (0-0.5')		0-0.5				
	SB-48 (0.5-2')		0.5-2				
	SB-48 (2-3')		2-3				
	SB-48 (4-6')		4-6				
SB-49	SB-49 (0-0.5')		0-0.5				
	SB-49 (0.5-2')		0.5-2				
SB-50	SB-50 (0.5-2')		0.5-2				
	SB-50 (2-4')		2-4				
SB-51	SB-51 (0.5-2')		0.5-2				
	SB-51 (2-4')		2-4				
SB-52	SB-52 (0.5-2')		0.5-2				
	SB-52 (2-4')		2-4				
SB-53	SB-53 (0-0.5')		0-0.5				
	SB-53 (0.5-2')		0.5-2				
SB-54	SB-54 (0-0.5')		0-0.5				
	SB-54 (0.5-2')		0.5-2				
	SB-54 (2-4')		2-4				
SB-55	SB-55 (0-0.5')	0-0.5					
	SB-55 (0.5-2')	0.5-2					
	SB-55 (2-4')	2-4					
SB-56	SB-56 (0-0.5')	0-0.5					
	SB-56 (0.5-2')	0.5-2					
	SB-56 (2-4')	2-4					
SB-57	SB-57 (0-0.5')	0-0.5					
	SB-57 (0.5-2')	0.5-2					
	SB-57 (2-4')	2-4					
	SB-57 (4-6')	4-6					

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Former Florida State Fire College

Location ID	Sample ID	Matrix	Depth (ft BLS)	Method	Analyses	Rationale	Criteria
SB-58	SB-58 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
	SB-58 (0.5-2')		0.5-2				
	SB-58 (2-4')		2-4				
	SB-58 (4-6')		4-6				
SB-59	SB-59 (0-0.5')		0-0.5				
	SB-59 (0.5-2')		0.5-2				
	SB-59 (2-4')		2-4				
	SB-59 (4-6')		4-6				
SB-60	SB-60 (0-0.5')		0-0.5				
	SB-60 (0.5-2')		0.5-2				
	SB-60 (2-4')		2-4				
	SB-60 (4-6')		4-6				
SB-61	SB-61 (0-0.5')		0-0.5				
	SB-61 (0.5-2')		0.5-2				
	SB-61 (2-4')		2-4				
	SB-61 (4-6')		4-6				
	SB-61 (6-8')		6-8	DPT			
	SB-61 (10-12')		10-12				
	SB-61 (13-15')		13-15				
	SB-61 (23-25')		23-25				
SB-62	SB-62 (0-0.5')		0-0.5				
	SB-62 (0.5-2')		0.5-2				
	SB-62 (2-4')		2-4				
	SB-62 (4-6')		4-6				
SB-63	SB-63 (0-0.5')		0-0.5				
	SB-63 (0.5-2')		0.5-2				
	SB-63 (2-4')		2-4				
	SB-63 (4-6')		4-6				
	SB-63 (6-8')		6-8	DPT			
	SB-63 (10-12')		10-12				
	SB-63 (13-15')		13-15				
	SB-63 (23-25')		23-25				
SB-64	SB-64 (0-0.5')		0-0.5				
	SB-64 (0.5-2')		0.5-2				
	SB-64 (2-4')		2-4				
	SB-64 (4-6')		4-6				
SB-65	SB-65 (0-0.5')		0-0.5				
	SB-65 (0.5-2')		0.5-2				
SB-66	SB-66 (0-0.5')		0-0.5				
	SB-66 (0.5-2')		0.5-2				
	SB-66 (2-4')		2-4				
	SB-66 (4-6')		4-6				
SB-67	SB-67 (0-0.5')		0-0.5				
	SB-67 (0.5-2')		0.5-2				
	SB-67 (2-4')		2-4				
	SB-67 (4-6')		4-6				
SB-68	SB-68 (0-0.5')		0-0.5				
	SB-68 (0.5-2')		0.5-2				
	SB-68 (2-4')		2-4				
	SB-68 (4-6')		4-6				
	SB-68 (6-8')		6-8	DPT			
	SB-68 (10-12')		10-12				
	SB-68 (13-15')		13-15				
	SB-68 (23-25')		23-25				
SB-69	SB-69 (0-0.5')		0-0.5				
	SB-69 (0.5-2')		0.5-2				
	SB-69 (2-4')		2-4				
	SB-69 (4-6')		4-6				
SB-70	SB-70 (0-0.5')		0-0.5				
	SB-70 (0.5-2')		0.5-2				
	SB-70 (2-4')		2-4				
	SB-70 (4-6')		4-6				
SB-71	SB-71 (0-0.5')		0-0.5				
	SB-71 (0.5-2')		0.5-2				
	SB-71 (2-4')		2-4				
	SB-71 (4-6')		4-6				

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Former Florida State Fire College

Location ID	Sample ID	Matrix	Depth (ft BLS)	Method	Analyses	Rationale	Criteria
SB-72	SB-72 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
	SB-72 (0.5-2')		0.5-2				
	SB-72 (2-4')		2-4				
	SB-72 (4-6')		4-6				
	SB-72 (6-8')		6-8	DPT			
	SB-72 (10-12')		10-12				
	SB-72 (13-15')		13-15				
	SB-72 (23-25')		23-25				
SB-73	SB-73 (0-0.5')		0-0.5	HA			
	SB-73 (0.5-2')		0.5-2				
	SB-73 (2-4')		2-4				
	SB-73 (4-6')		4-6				
SB-74	SB-74 (0-0.5')		0-0.5				
	SB-74 (0.5-2')		0.5-2				
	SB-74 (2-4')		2-4				
	SB-74 (4-6')		4-6				
SB-75	SB-75 (0-0.5')	0-0.5					
	SB-75 (0.5-2')	0.5-2					
	SB-75 (2-4')	2-4					
SB-76	SB-76 (0-0.5')	0-0.5					
	SB-76 (0.5-2')	0.5-2					
	SB-76 (2-4')	2-4					
SB-77	SB-77 (0-0.5')	0-0.5					
	SB-77 (0.5-2')	0.5-2					
	SB-77 (2-4')	2-4					
Sediment Samples							
Sed-1	Sed-1 (0-1')	Sediment	0-1	HA	PFAS	Assess Potential PFAS Impacts	N/A
Sed-2	Sed-2 (0-1')		0-1				
Sed-3	Sed-3 (0-1')		0-1				
Surface Water Samples							
SW-1	SW-1	Surface Water	N/A	Grab	PFAS	Assess Potential PFAS Impacts	Surface Water Screening Criteria based on Consumption of Freshwater and Estuarine Finfish and Shellfish
SW-2	SW-2						
SW-3	SW-3						
Screen Point Groundwater Samples							
SP-1	SP-1 (36-40')	Groundwater	36-40	DPT	PFAS	Groundwater Assessment	Provisional Groundwater Cleanup Target Level
SP-2	SP-2 (32-36')		32-36				
	SP-2 (46-50')		46-50				
	SP-2 (46-50') DUP		46-50				
	SP-2 (66-70')		66-70				
	SP-2 (86-90')		86-90				
SP-3	SP-3 (31-35')		31-35				
	SP-3 (31-35') DUP		31-35				
	SP-3 (46-50')		46-50				
	SP-3 (66-70')		66-70				
	SP-3 (66-70') DUP		66-70				
SP-4	SP-4 (33-37')		33-37				
SP-5	SP-5 (31-35')		31-35				
	SP-5 (46-50')		46-50				
	SP-5 (66-70')		66-70				
	SP-5 (82-86')		82-86				
	SP-5 (82-86') DUP		82-86				
SP-6	SP-6 (31-35')		31-35				
SP-7	SP-7 (31-35')		31-35				
SP-8	SP-8 (32-36')		32-36				
	SP-8 (46-50')		46-50				
	SP-8 (66-70')		66-70				
	SP-8 (86-90')		86-90				
SP-9	SP-9 (31-35')		31-35				
	SP-9 (31-35') DUP	31-35					
	SP-9 (46-50')	46-50					
	SP-9 (61-65')	61-65					

TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE, AND CRITERIA
Former Florida State Fire College

Location ID	Sample ID	Matrix	Depth (ft BLS)	Method	Analyses	Rationale	Criteria
SP-10	SP-10 (36-40')	Groundwater	36-40	DPT	PFAS	Groundwater Assessment	Provisional Groundwater Cleanup Target Level
	SP-10 (46-50')		46-50				
	SP-10 (66-70')		66-70				
	SP-10 (86-90')		86-90				
SP-11	SP-11 (31-35')		31-35				
	SP-11 (46-50')		46-50				
	SP-11 (66-70')		66-70				
	SP-11 (81-85')		81-85				
SP-12	SP-12 (36-40')		36-40				
	SP-12 (36-40') DUP		36-40				
	SP-12 (46-50')		46-50				
	SP-12 (66-70')		66-70				
SP-13	SP-13 (46-50')		46-50				
	SP-13 (66-70')		66-70				
SP-14	SP-14 (36-40')		36-40				
	SP-14 (46-50')		46-50				
	SP-14 (46-50') DUP		46-50				
	SP-14 (66-70')		66-70				
	SP-14 (86-90')		86-90				
SP-15	SP-15 (41-45')		41-45				
	SP-15 (46-50')		46-50				
	SP-15 (46-50') DUP		46-50				
	SP-15 (66-70')		66-70				
	SP-15 (86-90')		86-90				
SP-16	SP-16 (36-40')		36-40				
	SP-16 (46-50')	46-50					
	SP-16 (66-70')	66-70					
	SP-16 (78-82')	78-82					
SP-17	SP-17 (36-40')	36-40					
	SP-17 (46-50')	46-50					
	SP-17 (66-70')	66-70					
	SP-17 (82-86')	82-86					
SP-18	SP-18 (36-40')	36-40					
	SP-18 (46-50')	46-50					
	SP-18 (66-70')	66-70					
	SP-18 (82-86')	82-86					
SP-19	SP-19 (35-39')	35-39					
	SP-19 (46-50')	46-50					
	SP-19 (66-70')	66-70					
	SP-19 (86-90')	86-90					
SP-20	SP-20 (36-40')	36-40					
	SP-20 (46-50')	46-50					
	SP-20 (66-70')	66-70					
	SP-20 (86-90')	86-90					
SP-21	SP-21 (36-40')	36-40					
	SP-21 (46-50')	46-50					
	SP-21 (66-70')	66-70					
	SP-21 (86-90')	86-90					
SP-22	SP-22 (36-40')	36-40					
	SP-22 (46-50')	46-50					
	SP-22 (66-70')	66-70					
	SP-22 (86-90')	86-90					
	SP-22 (86-90') DUP	86-90					
SP-23	SP-23 (36-40')	36-40					
	SP-23 (46-50')	46-50					
	SP-23 (66-70')	66-70					
	SP-23 (66-70') DUP	66-70					
	SP-23 (78-82')	78-82					
SP-24	SP-24 (36-40')	36-40					
	SP-24 (46-50')	46-50					
	SP-24 (66-70')	66-70					
	SP-24 (78-82')	78-82					
SP-25	SP-25 (36-40')	36-40					
	SP-25 (46-50')	46-50					
	SP-25 (66-70')	66-70					

TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE, AND CRITERIA
Former Florida State Fire College

Location ID	Sample ID	Matrix	Depth (ft BLS)	Method	Analyses	Rationale	Criteria
SP-26	SP-26 (36-40')	Groundwater	36-40	DPT	PFAS	Groundwater Assessment	Provisional Groundwater Cleanup Target Level
	SP-26 (46-50')		46-50				
	SP-26 (66-70')		66-70				
	SP-26 (86-90')		86-90				
SP-27	SP-27 (36-40')		36-40				
	SP-27 (46-50')		46-50				
	SP-27 (46-50') DUP						
	SP-27 (66-70')		66-70				
	SP-27 (74-78')		74-78				
SP-28	SP-28 (41-45')		41-45				
	SP-28 (46-50')		46-50				
	SP-28 (66-70')		66-70				
	SP-28 (86-90')		86-90				
SP-29	SP-29 (36-40')		36-40				
	SP-29 (46-50')		46-50				
	SP-29 (66-70')		66-70				
SP-30	SP-30 (41-45')		41-45				
	SP-30 (46-50')		46-50				
	SP-30 (66-70')		66-70				
	SP-30 (66-70') DUP						
	SP-30 (86-90')		86-90				
SP-31	SP-31 (41-45')		41-45				
	SP-31 (46-50')		46-50				
	SP-31 (66-70')		66-70				
	SP-31 (82-86')		82-86				
SP-32	SP-32 (36-40')		36-40				
	SP-32 (46-50')		46-50				
	SP-32 (66-70')		66-70				
	SP-32 (86-90')		86-90				
SP-33	SP-33 (36-40')		36-40				
	SP-33 (46-50')		46-50				
	SP-33 (46-50') DUP						
	SP-33 (66-70')		66-70				
	SP-33 (86-90')		86-90				
SP-34	SP-34 (36-40')		36-40				
	SP-34 (46-50')		46-50				
	SP-34 (66-70')		66-70				
	SP-34 (86-90')		86-90				
SP-35	SP-35 (36-40')		36-40				
	SP-35 (46-50')		46-50				
	SP-35 (66-70')	66-70					
	SP-35 (78-82')	78-82					
	SP-35 (78-82') DUP						
SP-36	SP-36 (36-40')	36-40					
	SP-36 (46-50')	46-50					
	SP-36 (66-70')	66-70					
	SP-36 (81-85')	81-85					
SP-37	SP-37 (36-40')	36-40					
	SP-37 (46-50')	46-50					
	SP-37 (46-50') DUP						
	SP-37 (66-70')	66-70					
Monitoring Well Groundwater Samples							
DEPMW-1	DEPMW-1 (100-120')	Groundwater	100-120	Submersible Pump	PFAS	Groundwater Assessment	Provisional Groundwater Cleanup Target Level
DEPMW-2	DEPMW-2 (25-45')		25-45				
DEPMW-3	DEPMW-3 (100-120')		100-120				
DEPMW-4	DEPMW-4 (25-45')		25-45				
DEPMW-5	DEPMW-5 (100-120')		100-120				
DEPMW-6	DEPMW-6 (25-45')		25-45				
	DEPMW-6 (25-45') DUP						
DEPMW-7	DEPMW-7 (100-120')		100-120				
DEPMW-8	DEPMW-8 (20-40')		20-40				
	DEPMW-8 (20-40') DUP						
VISAMW [M-0200]	VISAMW (M-200)		30-40				
Irrigation Well (105-140')	Irrigation Well (105-140')		105-140				

TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE, AND CRITERIA
Former Florida State Fire College

Laboratory Quality Assurance/Quality Control Samples						
Sample Type	Sample ID	Matrix	Equipment sampled	Analyses	Rationale	Criteria
Equipment Blanks (ratio of 1:10)	EQB-1	Water	DPT Groundwater Sampling Equipment	PFAS	Assess potential sources of contamination from sampling and/or monitoring well installation equipment	N/A
	EQB-2					
	EQB-3					
	EQB-4					
	EQB-5					
	EQB-6					
	EQB-7					
	EQB-8					
	EQB-9					
	EQB-10					
	EQB-11					
	EQB-12					
	EQB-13					
	EQB-14					
	EQB-15					
	EQB-16					
	EQB-17					
	EQB-18					
	EQB-19					
	EQB-20					
	EQB-21					
	EQB-22					
	EQB-23					
	EQB-24					
	EQB-25					
	EQB-26					
	EQB-27					
	EQB-28					
	EQB-29					
	EQB-30					
	EQB-31					
	EQB-32					
	EQB-33					
	EQB-34					
	EQB-35					
	EQB-36					
	EQB-37					
	EQB-38					
	EQB-39					
	EQB-40					
	EQB-41					
	EQB-42					
	EQB-43					
	EQB-44					
	EQB-45					
	EQB-46					
	EQB-47					
	EQB-49					
	EQB-50					
	EQB-52					

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE, AND CRITERIA
Former Florida State Fire College**

Sample Type	Sample ID	Matrix	Equipment sampled	Analyses	Rationale	Criteria
Field Reagent Blanks	FRB-1	Water	DPT Groundwater Sampling	PFAS	Evaluate potential impact of sample cross-contamination	N/A
	FRB-2		Decontamination			
	FRB-3		HA Decon Area			
	FRB-4		DPT Groundwater Sampling			
	FRB-5		Groundwater Sampling			
	FRB-6		Hand Auger and DPT Decontamination			
	FRB-7		Monitoring Well Decon			
	FRB-8		DPT Groundwater Sampling			
	FRB-9		Groundwater Sampling			
	FRB-10		DPT Decontamination			
Investigation Derived Waste Samples						
Drum Number	Sample ID	Matrix	IDW Source	Analysis	Rationale	Criteria
4	IDW-Soil-20201014	Soil	Soil cuttings	PFAS, VOCs, SVOCs, RCRA metals	Waste characterization	N/A
5	IDW-Water-20201014	Water	Decontamination and purge water			

Notes:

- | | |
|--|---|
| <ul style="list-style-type: none"> 1. DPT indicates direct push technology. 2. ft BLS indicates feet below land surface. 3. SB indicates soil boring. 4. HA indicates hand auger. 5. PFAS indicates per- and polyfluoroalkyl substances. 6. N/A indicates not applicable. 7. EQB indicates equipment blank. 8. SP indicates screen point. 9. Sed indicates sediment. 10. SW indicates surface water. | <ul style="list-style-type: none"> 11. MW indicates monitoring well. 12. DUP indicates duplicate. 13. FRB indicates field reagent blank. 14. IDW indicates investigation derived waste. 15. VOC indicates volatile organic compounds. 16. SVOC indicates semi-volatile organic compounds. 17. RCRA metals indicates Resource Conservation and Recovery Act metals arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. 18. EQB-43 was collected on a K-packer to determine whether this equipment is suitable for assessing these analytes. |
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TABLE 2: WELL CONSTRUCTION DETAILS
Former Florida State Fire College

Well ID	Date Installed	Installation Method	Type	Top of Casing Elevation (ft NAVD 88)	Total Depth (ft BLS)	Screened Interval (ft BLS)	Well Diameter (inches)	Lithology of Screened Interval
DEPMW-1 (100-120')	5/18/2021	Sonic	Permanent	73.41	120	100-120	2	Limestone; voids present
DEPMW-2 (25-45')	5/19/2021			73.51	45	25-45		Sandy clay, clayey sand 25-34'; Limestone 34-45'
DEPMW-3 (100-120')	5/19/2021			71.77	120	100-120		Clayey sand 100-105'; Marly dolomitic limestone 105-120'
DEPMW-4 (25-45')	5/20/2021			71.83	45	25-45		Sandy clay, sand 25-28'; Limestone 28-29'; Clayey sand 29-34'; Limestone 34-45'
DEPMW-5 (100-120')	5/21/2021			73.36	120	100-120		Limestone; dolomitic from 110-120'
DEPMW-6 (25-45')	5/24/2021			73.44	45	25-45		Clay 25-35'; Limestone 35-45'
DEPMW-7 (100-120')	5/25/2021			69.40	120	100-120		Limestone; soft, voids present
DEPMW-8 (20-40')	5/26/2021			69.43	40	20-40		Sandy clay 20-30'; Limestone 30-40'
VISAMW [M-0200]	4/30/1989	HSA		74.97	40	30-40	4	NA
Irrigation Well (105-140')	NA	NA		76.14*	140	105-140		NA

Notes:

1. ft NAVD 88 indicates feet North American Vertical Datum 1988.
2. ft BLS indicates feet below land surface.
3. HSA indicates hollow stem auger.
4. NA indicates not available.
5. * indicates manually surveyed by Geosyntec on 17 June 2021.

TABLE 3: GROUNDWATER ELEVATION SUMMARY
Former Florida State Fire College

Well ID	DEPMW-1 (100-120')	DEPMW-2 (25-45')	DEPMW-3 (100-120')	DEPMW-4 (25-45')	DEPMW-5 (100-120')
Diameter (inches)	2	2	2	2	2
Total Depth (ft BTOC)	120	45	120	45	120
Screen Interval (ft BTOC)	100-120	25-45	100-120	25-45	100-120
TOC Elevation (ft NAVD)	73.41	73.51	71.77	71.83	73.36

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
6/14/2021	41.91	31.50	41.81	31.70	41.72	30.05	41.78	30.05	41.75	31.61
3/28/2022	42.20	31.21	42.21	31.30	42.08	29.69	42.11	29.72	42.12	31.24

Well ID	DEPMW-6 (25-45')	DEPMW-7 (100-120')	DEPMW-8 (20-40')	VISAMW [M-0200]	Irrigation Well
Diameter (inches)	2	2	2	4	4
Total Depth (ft BTOC)	45	120	40	40	140
Screen Interval (ft BTOC)	25-45	100-120	20-40	30-40	105-140
TOC Elevation (ft NAVD)	73.44	69.40	69.43	74.97	76.14*

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
6/14/2021	41.81	31.63	41.84	27.56	41.89	27.54	41.84	33.13	--	--
3/28/2022	42.12	31.32	42.21	27.19	42.22	27.21	42.16	32.81	--	--

Notes:

1. DTW indicates depth to groundwater measured in feet below top of casing (ft BTOC).
2. ELEV indicates groundwater elevation in feet relative to feet North American Vertical Datum 1988 (ft NAVD 88).
3. ft BLS indicates feet below land surface.
4. Top of casing (TOC) elevations are relative to ft NAVD 88.
5. * indicates manually surveyed by Geosyntec on 17 June 21.

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS	
Class				PFOA	PFSA	PFCA	PFOA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14		4	6	8	3	4	5
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-1	SB-1 (0-0.5')	10/14/2020	0-0.5	0.23 I	3.8	NA	0.41 I	0.20 U	0.20 U	0.21 I	0.39 U	0.57 I	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	NA	0.099 U	0.099 U	
	SB-1 (0.5-2')	10/14/2020	0.5-2	0.20 I	8.3	NA	0.34 I	0.21 U	0.22 I	0.23 I	0.42 U	0.28 I	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.22 I	NA	0.10 U	0.10 U	
	SB-1 (2-4')	10/14/2020	2-4	0.12 I	22	NA	0.19 U	0.19 U	0.19 U	0.49 I	0.44 I	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	NA	0.097 U	0.097 U	
	SB-1 (4-6')	10/14/2020	4-6	0.31 I	8.0	NA	0.21 U	0.21 U	0.21 U	0.82 I	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.46 I	0.21 U	NA	0.10 U	0.10 U	
	SB-1 (6-8')	10/14/2020	6-8	0.13 I	1.9	NA	0.20 U	0.20 U	0.20 U	0.25 I	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 I	0.20 U	NA	0.098 U	0.098 U	
	SB-1 (10-12')	10/14/2020	10-12	0.11 I	1.9	NA	0.19 U	0.19 U	0.19 U	0.31 I	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	NA	0.097 U	0.097 U	
	SB-1 (13-15')	10/14/2020	13-15	0.10 U	0.64 I	NA	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U	
	SB-1 (23-25')	10/14/2020	23-25	0.15 I	11	NA	0.21 U	0.21 U	0.21 U	0.42 I	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U	
SB-1 (33-35')	10/14/2020	33-35	0.16 U	3.1	NA	0.32 U	0.32 U	0.32 U	0.32 U	0.65 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.83 I	0.32 U	NA	0.16 U	0.16 U		
SB-2	SB-2 (0.5-2')	10/12/2020	0.5-2	3.3	23	NA	6.5	4.8	5.8	1.6	1.5 I	0.27 I	0.20 U	0.20 U	0.20 U	0.20 U	2.2	40	NA	0.49	0.46	
	SB-2 (2-4')	10/12/2020	2-4	2.8	42	NA	4.4	4.7	5.8	2.7	0.57 I	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	3.0	250	NA	0.43	0.60	
	SB-2 (4-6')	10/12/2020	4-6	1.9	120	NA	2.7	1.9	2.7	2.3	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	2.8	92	NA	0.21 I	0.53	
	SB-2 (6-8')	10/12/2020	6-8	2.8	180	NA	2.2	2.3	2.5	4.6	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	11	65	NA	0.18 I	0.64	
	SB-2 (10-12')	10/12/2020	10-12	1.3	150	NA	3.6	1.7	1.7	1.3	0.54 I	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.3	79	NA	0.26 I	0.28 I	
	SB-2 (13-15')	10/12/2020	13-15	0.099 U	70	NA	0.20 U	0.20 U	0.20 U	0.83	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	120	NA	0.099 U	0.099 U	
	SB-2 (23-25')	10/12/2020	23-25	5.5	21	NA	7.1	7.4	12	5.8	4.4	0.30 U	0.35 I	0.30 U	0.30 U	0.30 U	4.0	140	NA	0.23 I	0.22 I	
SB-2 (28-30')	10/12/2020	28-30	0.21 I	18	NA	0.28 U	0.28 U	0.28 U	0.28 U	0.55 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	1.1 I	17	NA	0.14 U	0.14 U		
SB-3 (0.5-2')	10/13/2020	0.5-2	17	47	NA	29	26	40	3.0	1.5 I	1.1	0.54 I	0.21 U	0.21 U	0.21 U	0.69 I	6.9	NA	0.90	1.4		
SB-3	SB-3 (2-4')	10/13/2020	2-4	0.90	4.4	NA	6.4	3.4	2.4	0.21 I	0.51 I	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.32 I	NA	0.21 I	0.20 I		
	SB-3 (4-6')	10/13/2020	4-6	3.3	36	NA	8.8	6.0	4.6	2.1	1.1 I	0.25 I	0.20 U	0.20 U	0.20 U	1.0 I	8.0	NA	0.39 I	0.56		
	SB-3 (6-8')	10/13/2020	6-8	0.81	8.9	NA	1.9	1.1	1.2	0.42 I	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	2.7	NA	0.12 I	0.16 I		
	SB-3 (10-12')	10/13/2020	10-12	4.4	110	NA	1.9	3.5	4.1	3.3	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	3.4	37	NA	0.29 I	0.59		
	SB-3 (13-15')	10/13/2020	13-15	3.1	69	NA	0.90 I	1.8	2.1	2.0	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.51 I	11	NA	0.13 I	0.28 I		
	SB-3 (23-25')	10/13/2020	23-25	1.5	22	NA	0.33 I	0.30 I	1.1	1.5	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	5.1	NA	0.12 U	0.12 U		
	SB-3 (28-30')	10/13/2020	28-30	1.5	68	NA	0.32 I	0.23 U	0.64 I	2.9	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.47 U	15	NA	0.12 U	0.12 U		
SB-4	SB-4 (0.5-2')	10/12/2020	0.5-2	2.4	7.4	NA	2.8	2.7	5.3	1.7	0.38 U	0.39 I	0.19 U	0.19 U	0.19 U	0.38 U	0.68 I	NA	0.095 U	0.28 I		
	SB-4 (2-4')	10/12/2020	2-4	0.33 I	2.9	NA	1.1	1.2	0.64 I	0.58 I	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.29 I	NA	0.10 U	0.13 I		
	SB-4 (4-6')	10/12/2020	4-6	0.10 U	0.83 I	NA	0.68 I	1.1	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U		
	SB-4 (6-8')	10/12/2020	6-8	0.094 U	0.66 I	NA	0.19 U	0.19 U	0.30 I	0.19 U	0.37 U	0.19 U	0.19 U	0.19 U	0.19 U	0.37 U	0.19 U	NA	0.094 U	0.094 U		
	SB-4 (10-12')	10/12/2020	10-12	0.13 U	0.52 I	NA	0.25 U	0.25 U	0.25 U	0.25 U	0.51 U	0.25 U	0.25 U	0.25 U	0.25 U	0.51 U	0.25 U	NA	0.13 U	0.13 U		
	SB-4 (13-15')	10/12/2020	13-15	0.14 U	0.62 I	NA	0.28 U	0.28 U	0.28 U	0.28 U	0.56 U	0.28 U	0.28 U	0.28 U	0.28 U	0.56 U	0.28 U	NA	0.14 U	0.14 U		
	SB-4 (23-25')	10/12/2020	23-25	0.15 U	0.30 U	NA	0.30 U	0.30 U	0.30 U	0.30 U	0.60 U	0.30 U	0.30 U	0.30 U	0.30 U	0.60 U	0.30 U	NA	0.15 U	0.15 U		
SB-4 (30-32')	10/12/2020	30-32	0.13 U	0.44 I	NA	0.26 U	0.26 U	0.26 U	0.26 U	0.51 U	0.26 U	0.26 U	0.26 U	0.26 U	0.51 U	0.26 U	NA	0.13 U	0.13 U			
SB-5	SB-5 (0-0.5')	10/13/2020	0-0.5	0.49 I	14	NA	1.2	1.4	0.64 I	0.50 I	0.52 U	0.93 I	0.26 U	0.26 U	0.26 U	0.52 U	0.26 U	NA	0.20 I	0.34 I		
	SB-5 (0.5-2')	10/13/2020	0.5-2	1.0	28	NA	1.8	2.4	1.0 I	0.64 I	0.60 U	0.30 U	0.30 U	0.30 U	0.30 U	0.60 U	0.30 U	NA	0.24 I	0.34 I		
	SB-5 (2-4')	10/13/2020	2-4	0.14 U	5.8	NA	0.37 I	0.54 I	0.37 I	0.28 U	0.56 U	0.28 U	0.28 U	0.28 U	0.28 U	0.56 U	0.28 U	NA	0.28 I	0.19 I		
	SB-5 (4-6')	10/13/2020	4-6	0.17 I	2.2	NA	0.24 U	0.29 I	0.28 I	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	NA	0.25 I	0.23 I		
	SB-5 (6-8')	10/13/2020	6-8	0.13 U	6.0	NA	0.26 U	0.26 U	0.26 U	0.26 U	0.51 U	0.26 U	0.26 U	0.26 U	0.26 U	0.51 U	0.26 U	NA	0.15 I	0.17 I		
	SB-5 (10-12')	10/13/2020	10-12	0.11 U	4.1	NA	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	NA	0.11 U	0.11 U		
	SB-5 (13-15')	10/13/2020	13-15	0.11 U	1.2	NA	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	NA	0.11 U	0.11 U		
SB-5 (23-25')	10/13/2020	23-25	0.12 U	8.0	NA	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	NA	0.12 U	0.12 U			
SB-5 (28-30')	10/13/2020	28-30	0.12 U	250	NA	0.25 U	0.39 I	0.25 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	0.50 U	0.25 U	NA	0.12 U	0.12 U			

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replcement	Replacement	Replacement	Replacement	Misc	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-1	SB-1 (0-0.5')	10/14/2020	0-0.5	0.27 I	0.099 U	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-1 (0.5-2')	10/14/2020	0.5-2	0.41 I	0.10 U	0.12 I	0.25 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-1 (2-4')	10/14/2020	2-4	0.35 I	0.097 U	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-1 (4-6')	10/14/2020	4-6	0.60	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-1 (6-8')	10/14/2020	6-8	0.37 I	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-1 (10-12')	10/14/2020	10-12	0.43	0.097 U	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-1 (13-15')	10/14/2020	13-15	0.20 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
SB-1 (23-25')	10/14/2020	23-25	0.14 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA		
SB-1 (33-35')	10/14/2020	33-35	0.16 U	0.16 U	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA		
SB-2	SB-2 (0.5-2')	10/12/2020	0.5-2	14	0.33 I	0.25 I	0.11 I	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-2 (2-4')	10/12/2020	2-4	5.5	0.10 U	0.24 I	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-2 (4-6')	10/12/2020	4-6	2.7	0.15 I	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-2 (6-8')	10/12/2020	6-8	4.4	0.76	0.13 I	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.38 U	NA	NA	NA	NA	NA	
	SB-2 (10-12')	10/12/2020	10-12	2.7	0.30 I	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-2 (13-15')	10/12/2020	13-15	0.18 I	0.099 U	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-2 (23-25')	10/12/2020	23-25	3.1	0.20 I	0.29 I	0.36 I	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.59 U	NA	NA	NA	NA	NA	
SB-2 (28-30')	10/12/2020	28-30	0.31 I	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.55 U	NA	NA	NA	NA	NA		
SB-3	SB-3 (0.5-2')	10/13/2020	0.5-2	35	0.77	0.23 I	0.35 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-3 (2-4')	10/13/2020	2-4	3.2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-3 (4-6')	10/13/2020	4-6	11	0.22 I	0.25 I	0.19 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-3 (6-8')	10/13/2020	6-8	2.3	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-3 (10-12')	10/13/2020	10-12	13	0.30 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	
	SB-3 (13-15')	10/13/2020	13-15	7.5	0.18 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.45 U	NA	NA	NA	NA	NA	
	SB-3 (23-25')	10/13/2020	23-25	2.2	0.17 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.48 U	NA	NA	NA	NA	NA	
SB-4	SB-4 (28-30')	10/13/2020	28-30	1.4	0.26 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.47 U	NA	NA	NA	NA	NA	
	SB-4 (0.5-2')	10/12/2020	0.5-2	6.3	0.13 I	0.095 U	0.095 U	NA	NA	NA	0.095 U	0.095 U	NA	NA	NA	0.38 U	NA	NA	NA	NA	NA	
	SB-4 (2-4')	10/12/2020	2-4	1.2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-4 (4-6')	10/12/2020	4-6	0.25 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-4 (6-8')	10/12/2020	6-8	0.094 U	0.094 U	0.094 U	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.37 U	NA	NA	NA	NA	NA	
	SB-4 (10-12')	10/12/2020	10-12	0.13 U	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.51 U	NA	NA	NA	NA	NA	
	SB-4 (13-15')	10/12/2020	13-15	0.14 U	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.56 U	NA	NA	NA	NA	NA	
SB-5	SB-4 (23-25')	10/12/2020	23-25	0.15 U	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.60 U	NA	NA	NA	NA	NA	
	SB-4 (30-32')	10/12/2020	30-32	0.13 U	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.51 U	NA	NA	NA	NA	NA	
	SB-5 (0-0.5')	10/13/2020	0-0.5	5.3	0.14 I	0.14 I	0.44 I	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.52 U	NA	NA	NA	NA	NA	
	SB-5 (0.5-2')	10/13/2020	0.5-2	6.5	0.64	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.60 U	NA	NA	NA	NA	NA	
	SB-5 (2-4')	10/13/2020	2-4	3.7	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.56 U	NA	NA	NA	NA	NA	
	SB-5 (4-6')	10/13/2020	4-6	2.8	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.48 U	NA	NA	NA	NA	NA	
	SB-5 (6-8')	10/13/2020	6-8	3.1	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.51 U	NA	NA	NA	NA	NA	
SB-5	SB-5 (10-12')	10/13/2020	10-12	0.78	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA	
	SB-5 (13-15')	10/13/2020	13-15	0.33 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-5 (23-25')	10/13/2020	23-25	0.62	0.12 U	0.12 U	0.40 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA	
	SB-5 (28-30')	10/13/2020	28-30	0.96	0.12 U	1.9	2.9	NA	NA	NA	0.27 I	0.12 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPoS	PFBS	PFPeS	
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-6	SB-6 (0-0.5')	10/13/2020	0-0.5	0.17 I	2.9	NA	0.23 I	0.36 I	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U	
	SB-6 (0.5-2')	10/13/2020	0.5-2	0.10 U	1.0	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	
	SB-6 (2-4')	10/13/2020	2-4	0.10 U	0.60 I	NA	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U	
	SB-6 (4-6')	10/13/2020	4-6	0.11 U	0.97	NA	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	NA	0.11 U	0.11 U	
	SB-6 (6-8')	10/13/2020	6-8	0.11 U	0.46 I	NA	0.22 U	0.22 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.45 U	0.22 U	NA	0.11 U	0.11 U	
	SB-6 (10-12')	10/13/2020	10-12	0.12 U	0.25 I	NA	0.24 U	0.24 U	0.24 U	0.24 U	0.49 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.49 U	0.24 U	NA	0.12 U	0.12 U	
	SB-6 (13-15')	10/13/2020	13-15	0.12 U	0.23 U	NA	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	NA	0.12 U	0.12 U	
SB-6 (23-25')	10/13/2020	23-25	0.14 U	0.28 U	NA	0.28 U	0.28 U	0.28 U	0.28 U	0.56 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.56 U	0.28 U	NA	0.14 U	0.14 U		
SB-6 (28-30')	10/13/2020	28-30	0.15 U	0.59 I	NA	0.30 U	0.30 U	0.30 U	0.30 U	0.61 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.61 U	0.30 U	NA	0.15 U	0.15 U		
SB-7	SB-7 (0.5-2')	10/13/2020	0.5-2	0.10 U	6.3	NA	0.20 U	0.20 U	0.34 I	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U		
	SB-7 (2-4')	10/13/2020	2-4	0.17 I	4.9	NA	0.67 I	0.65 I	0.34 I	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U		
	SB-7 (4-6')	10/14/2020	4-6	0.98	3.2	NA	1.2	1.1 I	0.78 I	0.33 I	0.57 U	0.28 U	0.28 U	0.28 U	0.28 U	0.57 U	0.28 U	NA	0.14 U	0.14 U		
	SB-7 (6-8')	10/14/2020	6-8	0.41 I	1.4	NA	0.75 I	0.76 I	0.52 I	0.29 U	0.58 U	0.29 U	0.29 U	0.29 U	0.29 U	0.58 U	0.29 U	NA	0.15 U	0.15 U		
	SB-7 (10-12')	10/14/2020	10-12	0.31 I	0.34 I	NA	0.56 I	0.54 I	0.52 I	0.26 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	0.52 U	0.26 U	NA	0.13 U	0.13 U		
	SB-7 (13-15')	10/14/2020	13-15	0.13 U	0.27 U	NA	0.27 U	0.27 U	0.27 U	0.27 U	0.53 U	0.27 U	0.27 U	0.27 U	0.27 U	0.53 U	0.27 U	NA	0.13 U	0.13 U		
	SB-7 (23-25')	10/14/2020	23-25	0.12 U	0.61 I	NA	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	NA	0.12 U	0.12 U		
SB-7 (28-30')	10/14/2020	28-30	0.12 U	2.3	NA	0.23 U	0.23 U	0.23 U	0.23 U	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.47 U	0.23 U	NA	0.12 U	0.12 U			
SB-8	SB-8 (0-0.5')	10/15/2020	0-0.5	0.20 I	2.8	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.29 I	0.20 U	0.20 U	0.20 U	0.40 I	0.20 U	NA	0.10 U	0.10 U		
	SB-8 (0.5-2')	10/15/2020	0.5-2	0.098 U	1.7	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.44 I	0.20 U	NA	0.098 U	0.098 U		
	SB-8 (2-4')	3/23/2021	2-4	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	NA	0.098 U	0.098 U		
	SB-8 (4-6')	3/23/2021	4-6	0.19 U	0.20 I	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	NA	0.095 U	0.095 U		
SB-9	SB-9 (0-0.5')	10/13/2020	0-0.5	0.16 I	1.3	NA	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.25 I	0.22 I	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U		
	SB-9 (0.5-2')	10/13/2020	0.5-2	0.49	11	NA	0.23 I	0.28 I	0.30 I	0.21 U	0.42 U	1.6	0.21 U	0.28 I	0.21 U	1.9	4.6	NA	0.11 U	0.11 U		
	SB-9 (2-4')	3/23/2021	2-4	0.20 U	3.1	0.40 U	0.20 U	0.22 I	0.20 U	0.20 U	0.40 U	1.9	0.28 I	0.28 I	0.20 U	0.40 U	0.20 U	NA	0.099 U	0.099 U		
	SB-9 (4-6')	3/23/2021	4-6	0.21 U	1.1	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.70 I	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.11 U	0.11 U		
SB-10	SB-10 (0-0.5')	10/14/2020	0-0.5	0.12 I	1.5	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.31 I	0.43 I	0.28 I	0.20 U	0.41 I	0.20 U	NA	0.10 U	0.10 U		
	SB-10 (0.5-2')	10/14/2020	0.5-2	0.10 U	0.20 U	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.30 I	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U		
	SB-10 (2-4')	3/23/2021	2-4	0.22 U	0.46 I	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.67 I	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	NA	0.11 U	0.11 U		
SB-10	SB-10 (4-6')	3/23/2021	4-6	0.22 U	0.22 I	0.44 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.11 U			
SB-11	SB-11 (0-0.5')	10/14/2020	0-0.5	0.13 I	1.6	NA	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.27 I	0.22 U	0.22 U	0.22 U	0.49 I	0.22 U	NA	0.11 U	0.11 U		
	SB-11 (0.5-2')	10/14/2020	0.5-2	0.098 U	1.1	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	NA	0.098 U	0.098 U		
SB-12	SB-12 (0-0.5')	10/13/2020	0-0.5	0.18 I	2.8	NA	0.23 U	0.30 I	0.23 U	0.28 I	0.47 U	0.28 I	0.23 U	0.23 U	0.23 U	0.47 U	0.23 U	NA	0.12 U	0.12 U		
	SB-12 (0.5-2')	10/13/2020	0.5-2	0.10 U	1.5	NA	0.21 U	0.21 U	0.21 U	0.25 I	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.48 I	0.21 U	NA	0.10 U	0.10 U		
SB-13	SB-13 (0-0.5')	10/14/2020	0-0.5	2.0	24	NA	1.8	1.5	2.6	1.1	2.0	3.6	2.3	8.5	1.0	0.24 U	10	17	NA	0.12 U	0.12 I	
	SB-13 (0.5-2')	10/14/2020	0.5-2	2.5	24	NA	0.80 I	0.83	2.6	3.3	3.9	4.4	0.62 I	0.87	0.21 U	0.21 U	1.7	18	NA	0.10 U	0.10 U	
	SB-13 (2-4')	10/14/2020	2-4	2.4	7.4	NA	0.64 I	0.89	1.9	2.7	1.4 I	1.5	0.21 U	0.22 I	0.21 U	0.21 U	0.54 I	4.8	NA	0.11 U	0.11 U	
SB-14	SB-14 (0.5-2')	10/12/2020	0.5-2	8.2	7.3	NA	0.89	2.5	9.1	1.8	0.59 I	0.56 I	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.23 I		
	SB-14 (2-4')	10/12/2020	2-4	0.16 I	7.2	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.56 I	4.5	NA	0.10 U	0.10 U		
SB-15	SB-15 (0.5-2')	10/13/2020	0.5-2	4.2	73	NA	0.88	2.1	6.8	2.7	1.9	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	1.2	NA	0.16 I	0.73		
	SB-15 (2-4')	10/13/2020	2-4	1.3	56	NA	1.6	3.4	1.3	2.2	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	4.9	NA	0.34 I	0.37 I		
SB-16	SB-16 (0-0.5')	10/15/2020	0-0.5	0.37 I	3.3	NA	0.34 I	0.27 I	0.28 I	0.42 I	0.43 U	2.5	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U		
	SB-16 (0.5-2')	10/15/2020	0.5-2	0.28 I	2.7	NA	0.30 I	0.27 I	0.26 I	0.34 I	0.59 I	2.0	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U		
	SB-16 (2-4')	10/15/2020	2-4	0.095 U	1.2	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	9.2	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	NA	0.095 U	0.095 U		
SB-17	SB-17 (0-0.5')	10/15/2020	0-0.5	0.51	11	NA	1.1	0.64 I	0.42 I	0.41 I	0.41 U	0.65 I	0.37 I	0.28 I	0.20 U	0.41 U	0.25 I	NA	0.10 U	0.10 U		
	SB-17 (0.5-2')	10/15/2020	0.5-2	0.70	10	NA	0.38 I	0.27 I	0.62 I	0.56 I	0.95 I	0.88 I	0.23 U	0.23 U	0.23 U	0.46 I	2.0	NA	0.11 U	0.11 U		
	SB-17 (2-4')	10/15/2020	2-4	0.097 U	1.6	NA	0.19 U	0.22 I	0.24 I	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.22 I	NA	0.097 U	0.097 U		

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replcement	Replacement	Replacement	Replacement	Misc	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-6	SB-6 (0-0.5')	10/13/2020	0-0.5	0.13 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-6 (0.5-2')	10/13/2020	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-6 (2-4')	10/13/2020	2-4	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-6 (4-6')	10/13/2020	4-6	0.11 U	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA	
	SB-6 (6-8')	10/13/2020	6-8	0.11 U	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.45 U	NA	NA	NA	NA	NA	
	SB-6 (10-12')	10/13/2020	10-12	0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.49 U	NA	NA	NA	NA	NA	
	SB-6 (13-15')	10/13/2020	13-15	0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA	
SB-6 (23-25')	10/13/2020	23-25	0.14 U	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.56 U	NA	NA	NA	NA	NA		
SB-6 (28-30')	10/13/2020	28-30	0.15 U	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.61 U	NA	NA	NA	NA	NA		
SB-7	SB-7 (0.5-2')	10/13/2020	0.5-2	0.28 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-7 (2-4')	10/13/2020	2-4	0.18 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-7 (4-6')	10/14/2020	4-6	0.22 I	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.57 U	NA	NA	NA	NA	NA	
	SB-7 (6-8')	10/14/2020	6-8	0.23 I	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.58 U	NA	NA	NA	NA	NA	
	SB-7 (10-12')	10/14/2020	10-12	0.15 I	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.52 U	NA	NA	NA	NA	NA	
	SB-7 (13-15')	10/14/2020	13-15	0.13 U	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.53 U	NA	NA	NA	NA	NA	
	SB-7 (23-25')	10/14/2020	23-25	0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.48 U	NA	NA	NA	NA	NA	
SB-7 (28-30')	10/14/2020	28-30	0.20 I	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.47 U	NA	NA	NA	NA	NA		
SB-8	SB-8 (0-0.5')	10/15/2020	0-0.5	0.29 I	0.10 U	0.10 U	0.14 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-8 (0.5-2')	10/15/2020	0.5-2	0.098 U	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-8 (2-4')	3/23/2021	2-4	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.20 U	0.39 U	NA	NA	NA	NA	NA	
SB-8 (4-6')	3/23/2021	4-6	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.19 U	0.19 U	0.38 U	NA	NA	NA	NA	NA		
SB-9	SB-9 (0-0.5')	10/13/2020	0-0.5	0.20 I	0.10 U	0.10 U	0.26 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-9 (0.5-2')	10/13/2020	0.5-2	0.32 I	0.11 U	0.11 U	0.82	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-9 (2-4')	3/23/2021	2-4	2.7	0.099 U	0.10 I	4.5	0.13 I	0.43	0.85	0.099 U	0.099 U	0.099 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
SB-9 (4-6')	3/23/2021	4-6	1.7	0.11 U	0.14 I	0.64	0.11 U	0.41 I	0.51	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA		
SB-10	SB-10 (0-0.5')	10/14/2020	0-0.5	0.12 I	0.10 U	0.10 U	0.26 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-10 (0.5-2')	10/14/2020	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-10 (2-4')	3/23/2021	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	NA	NA	NA	NA	NA	
SB-10 (4-6')	3/23/2021	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	NA	NA	NA	NA	NA		
SB-11	SB-11 (0-0.5')	10/14/2020	0-0.5	0.20 I	0.11 U	0.11 U	0.11 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-11 (0.5-2')	10/14/2020	0.5-2	0.098 U	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
SB-12	SB-12 (0-0.5')	10/13/2020	0-0.5	0.14 I	0.12 U	0.12 U	0.16 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.47 U	NA	NA	NA	NA	NA	
	SB-12 (0.5-2')	10/13/2020	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-13	SB-13 (0-0.5')	10/14/2020	0-0.5	2.1	0.18 I	0.18 I	1.5	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.49 U	NA	NA	NA	NA	NA	
	SB-13 (0.5-2')	10/14/2020	0.5-2	2.2	0.27 I	0.36 I	0.70	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-13 (2-4')	10/14/2020	2-4	1.5	0.15 I	0.11 U	0.12 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
SB-14	SB-14 (0.5-2')	10/12/2020	0.5-2	11	0.22 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-14 (2-4')	10/12/2020	2-4	0.20 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
SB-15	SB-15 (0.5-2')	10/13/2020	0.5-2	36	0.52	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-15 (2-4')	10/13/2020	2-4	5.8	0.16 I	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
SB-16	SB-16 (0-0.5')	10/15/2020	0-0.5	0.63	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-16 (0.5-2')	10/15/2020	0.5-2	0.79	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-16 (2-4')	10/15/2020	2-4	0.46	0.095 U	0.095 U	0.095 U	NA	NA	NA	0.095 U	0.095 U	NA	NA	NA	0.38 U	NA	NA	NA	NA	NA	
SB-17	SB-17 (0-0.5')	10/15/2020	0-0.5	1.7	0.10 U	0.10 U	0.16 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-17 (0.5-2')	10/15/2020	0.5-2	1.7	0.11 U	0.16 I	0.15 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA	
	SB-17 (2-4')	10/15/2020	2-4	0.45	0.097 U	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	

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Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replcement	Replacement	Replacement	Replacement	Misc	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-18	SB-18 (0-0.5')	10/12/2020	0-0.5	3.5	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.58 U	NA	NA	NA	NA	NA	
	SB-18 (0.5-2')	10/12/2020	0.5-2	0.75	0.11 U	0.11 U	0.26 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-18 (2-4')	10/12/2020	2-4	0.49	0.11 U	0.42 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA	
SB-19	SB-19 (0-0.5')	10/15/2020	0-0.5	5.2	0.20 I	0.15 I	1.7	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-19 (0.5-2')	10/15/2020	0.5-2	5.6	0.15 I	0.40	0.31 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-19 (2-4')	10/15/2020	2-4	2.3	0.10 U	0.16 I	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
SB-20	SB-20 (0-0.5')	10/14/2020	0-0.5	0.23 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-20 (0.5-2')	10/14/2020	0.5-2	0.29 I	0.099 U	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-20 (2-4')	10/14/2020	2-4	0.18 I	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
SB-21	SB-21 (0-0.5')	10/14/2020	0-0.5	0.10 I	0.097 U	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-21 (0.5-2')	10/14/2020	0.5-2	0.099 U	0.099 U	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-21 (2-4')	10/14/2020	2-4	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
SB-22	SB-22 (0-0.5')	10/14/2020	0-0.5	0.28 I	0.096 U	0.13 I	0.13 I	NA	NA	NA	0.096 U	0.096 U	NA	NA	NA	0.38 U	NA	NA	NA	NA	NA	
	SB-22 (0.5-2')	10/14/2020	0.5-2	0.25 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-22 (2-4')	10/14/2020	2-4	0.17 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-23	SB-23 (0-0.5')	10/14/2020	0-0.5	0.39 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-23 (0.5-2')	10/14/2020	0.5-2	0.19 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-23 (2-4')	10/14/2020	2-4	0.19 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
SB-24	SB-24 (0-0.5')	10/13/2020	0-0.5	4.6	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.48 U	NA	NA	NA	NA	NA	
	SB-24 (0.5-2')	10/13/2020	0.5-2	0.78	0.10 U	0.26 I	2.0	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-24 (2-4')	10/13/2020	2-4	0.24 I	0.10 U	1.9	2.6	NA	NA	NA	0.11 I	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-25	SB-25 (0-0.5')	10/15/2020	0-0.5	0.19 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.44 U	NA	NA	NA	NA	NA	
	SB-25 (0.5-2')	10/15/2020	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
SB-26	SB-26 (0-0.5')	10/15/2020	0-0.5	0.46	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-26 (0.5-2')	10/15/2020	0.5-2	0.12 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
SB-27	SB-27 (0-0.5')	10/15/2020	0-0.5	6.4	0.13 I	0.10 U	0.19 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-27 (0.5-2')	10/15/2020	0.5-2	3.5	0.10 U	0.16 I	0.22 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-27 (2-3')	10/15/2020	2-3	2.9	0.098 U	0.11 I	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-27 (4-6')	3/24/2021	4-6	0.78	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.28 U	0.57 U	NA	NA	NA	NA	NA	
SB-28	SB-28 (0.5-2')	10/12/2020	0.5-2	4.7	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-28 (2-4')	10/12/2020	2-4	1.2	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
SB-29	SB-29 (0.5-2')	10/12/2020	0.5-2	18	0.59	0.81	1.9	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-29 (2-4')	10/12/2020	2-4	26	0.41	3.3	1.3	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-30	SB-30 (0.5-2')	10/12/2020	0.5-2	4.5	0.16 I	0.12 I	0.10 U	NA	NA	NA	0.10 U	0.14 I	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-30 (2-4')	10/12/2020	2-4	1.7	0.23 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-31	SB-31 (0-0.5')	10/14/2020	0-0.5	0.23 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-31 (0.5-2')	10/14/2020	0.5-2	0.15 I	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-31 (2-4')	10/14/2020	2-4	0.12 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-32	SB-32 (0-0.5')	10/14/2020	0-0.5	1.3	0.14 I	0.10 U	0.11 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-32 (0.5-2')	10/14/2020	0.5-2	0.16 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-32 (2-4')	10/14/2020	2-4	0.11 I	0.097 U	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.11 I	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
SB-33	SB-33 (0-0.5')	10/14/2020	0-0.5	0.56	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-33 (0.5-2')	10/14/2020	0.5-2	0.32 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.45 U	NA	NA	NA	NA	NA	
	SB-33 (2-4')	10/14/2020	2-4	0.39 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
SB-34	SB-34 (0.5-2')	10/13/2020	0.5-2	2.2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-34 (2-4')	10/13/2020	2-4	0.29 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replcement	Replacement	Replacement	Replacement	Misc	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-35	SB-35 (0.5-2')	10/12/2020	0.5-2	3.0	0.097 U	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-35 (2-3')	10/12/2020	2-3	2.7	0.10 U	0.10 U	0.12 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-36	SB-36 (0.5-2')	10/12/2020	0.5-2	1.5	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-36 (2-4')	10/12/2020	2-4	0.47	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-37	SB-37 (0-0.5')	10/15/2020	0-0.5	4.1	0.18 I	0.11 I	1.1	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-37 (0.5-2')	10/15/2020	0.5-2	2.9	0.10 U	0.15 I	0.53	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-37	SB-37 (2-4')	10/15/2020	2-4	8.1	0.38 I	0.52	6.8	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-37 (4-6')	10/15/2020	4-6	2.3	0.10 U	0.13 I	0.63	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
SB-38	SB-38 (0-0.5')	10/15/2020	0-0.5	0.46 I	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.47 U	NA	NA	NA	NA	NA	
	SB-38 (0.5-2')	10/15/2020	0.5-2	0.18 I	0.096 U	0.096 U	0.096 U	NA	NA	NA	0.096 U	0.096 U	NA	NA	NA	0.38 U	NA	NA	NA	NA	NA	
SB-39	SB-39 (0-0.5')	10/13/2020	0-0.5	0.90	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	
	SB-39 (0.5-2')	10/13/2020	0.5-2	0.18 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-40	SB-39 (2-4')	10/13/2020	2-4	0.13 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-40 (0.5-2')	10/13/2020	0.5-2	0.11 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-40	SB-40 (2-4')	10/13/2020	2-4	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-41 (0-0.5')	10/13/2020	0-0.5	1.9	0.17 U	0.17 U	0.17 U	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA	0.67 U	NA	NA	NA	NA	NA	
SB-41	SB-41 (0.5-2')	10/13/2020	0.5-2	0.72	0.11 U	0.11 U	0.11 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-41 (2-4')	10/13/2020	2-4	0.22 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-42	SB-42 (0-0.5')	10/14/2020	0-0.5	0.74	0.10 U	0.10 U	0.22 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-42 (0.5-2')	10/14/2020	0.5-2	0.38 I	0.11 U	0.11 U	0.51	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-42 (2-4')	10/14/2020	2-4	0.17 I	0.097 U	0.19 I	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
SB-43	SB-42 (4-6')	10/14/2020	4-6	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	NA	NA	NA	0.16 UJ	0.16 UJ	NA	NA	NA	0.66 UJ	NA	NA	NA	NA	NA	
	SB-43 (0-0.5')	10/14/2020	0-0.5	0.51	0.13 U	0.13 U	0.13 I	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	
	SB-43 (0.5-2')	10/14/2020	0.5-2	0.18 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
SB-43	SB-43 (2-4')	10/14/2020	2-4	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	NA	NA	NA	0.14 UJ	0.14 UJ	NA	NA	NA	0.55 UJ	NA	NA	NA	NA	NA	
	SB-43 (4-6')	10/14/2020	4-6	0.13 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-44 (0-0.5')	10/14/2020	0-0.5	0.11 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.12 I	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
SB-44	SB-44 (0.5-2')	10/14/2020	0.5-2	0.24 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-44 (2-4')	10/14/2020	2-4	0.17 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-44 (4-6')	10/14/2020	4-6	0.098 U	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
SB-45	SB-45 (0-0.5')	10/14/2020	0-0.5	0.16 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-45 (0.5-2')	10/14/2020	0.5-2	0.27 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-45 (2-4')	10/14/2020	2-4	0.27 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-45 (4-6')	3/24/2021	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-45 (6-8')	3/24/2021	6-8	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-45 (10-12')	3/24/2021	10-12	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.23 U	0.47 U	NA	NA	NA	NA	NA	
	SB-45 (13-15')	3/24/2021	13-15	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.46 U	NA	NA	NA	NA	NA	
SB-46	SB-45 (23-25')	3/24/2021	23-25	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	0.29 U	0.58 U	NA	NA	NA	NA	NA	
	SB-45 (28-30')	3/24/2021	28-30	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.26 U	0.52 U	NA	NA	NA	NA	NA	
	SB-46 (0.5-2')	10/12/2020	0.5-2	0.46	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-46	SB-46 (2-4')	10/12/2020	2-4	0.11 I	0.096 U	0.096 U	0.096 U	NA	NA	NA	0.096 U	0.096 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
	SB-47 (0.5-2')	10/12/2020	0.5-2	0.23 I	0.097 U	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA	
SB-47	SB-47 (2-4')	10/12/2020	2-4	0.11 U	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.45 U	NA	NA	NA	NA	NA	
	SB-48 (0-0.5')	10/15/2020	0-0.5	1.2	0.12 U	0.12 U	0.21 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.49 U	NA	NA	NA	NA	NA	
SB-48	SB-48 (0.5-2')	10/15/2020	0.5-2	17	0.49 I	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.55 U	NA	NA	NA	NA	NA	
	SB-48 (2-3')	10/15/2020	2-3	3.6	0.19 I	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.57 U	NA	NA	NA	NA	NA	
	SB-48 (4-6')	3/23/2021	4-6	0.22 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	NA	NA	NA	NA	NA	
SB-49	SB-49 (0-0.5')	10/15/2020	0-0.5	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
	SB-49 (0.5-2')	10/15/2020	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replcement	Replacement	Replacement	Replacement	Misc	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-50	SB-50 (0.5-2')	10/12/2020	0.5-2	0.13 I	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA	
	SB-50 (2-4')	10/12/2020	2-4	0.56	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.44 U	NA	NA	NA	NA	NA	
SB-51	SB-51 (0.5-2')	10/12/2020	0.5-2	0.13 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-51 (2-4')	10/12/2020	2-4	0.15 I	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.58 U	NA	NA	NA	NA	NA	
SB-52	SB-52 (0.5-2')	10/13/2020	0.5-2	0.17 I	0.093 U	0.093 U	0.093 U	NA	NA	NA	0.093 U	0.093 U	NA	NA	NA	0.37 U	NA	NA	NA	NA	NA	
	SB-52 (2-4')	10/13/2020	2-4	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA	
SB-53	SB-53 (0-0.5')	10/15/2020	0-0.5	0.46	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-53 (0.5-2')	10/15/2020	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
SB-54	SB-54 (0-0.5')	10/15/2020	0-0.5	0.24 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-54 (0.5-2')	10/15/2020	0.5-2	0.13 U	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.51 U	NA	NA	NA	NA	NA	
	SB-54 (2-4')	10/15/2020	2-4	0.14 I	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.47 U	NA	NA	NA	NA	NA	
SB-55	SB-55 (0-0.5')	10/13/2020	0-0.5	0.24 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
	SB-55 (0.5-2')	10/13/2020	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.44 U	NA	NA	NA	NA	NA	
	SB-55 (2-4')	10/13/2020	2-4	0.33 I	0.11 U	0.11 U	0.18 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	
SB-56	SB-56 (0-0.5')	10/13/2020	0-0.5	0.60 I	0.16 U	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	
	SB-56 (0.5-2')	10/13/2020	0.5-2	0.13 I	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA	
	SB-56 (2-4')	10/13/2020	2-4	0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.48 U	NA	NA	NA	NA	NA	
SB-57	SB-57 (0-0.5')	3/22/2021	0-0.5	0.15 I	0.10 U	0.10 U	0.15 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.41 U	NA	NA	NA	NA	NA	
	SB-57 (0.5-2')	3/22/2021	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.41 U	NA	NA	NA	NA	NA	
	SB-57 (2-4')	3/22/2021	2-4	0.11 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
	SB-57 (4-6')	3/22/2021	4-6	0.12 I	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
SB-58	SB-58 (0-0.5')	3/22/2021	0-0.5	0.27 I	0.099 U	0.099 U	0.32 I	0.099 U	0.099 U	0.12 I	0.099 U	0.099 U	0.099 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-58 (0.5-2')	3/22/2021	0.5-2	0.86	0.13 I	0.24 I	0.29 I	0.10 U	1.1	0.54	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
	SB-58 (2-4')	3/22/2021	2-4	1.5	0.40 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.27 U	0.53 U	NA	NA	NA	NA	NA	
SB-59	SB-59 (0-0.5')	3/22/2021	0-0.5	0.62	0.13 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.39 U	NA	NA	NA	NA	NA	
	SB-59 (0.5-2')	3/22/2021	0.5-2	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.19 U	0.39 U	NA	NA	NA	NA	NA	
	SB-59 (2-4')	3/22/2021	2-4	0.12 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	NA	NA	NA	NA	NA	
SB-60	SB-60 (0-0.5')	3/22/2021	0-0.5	0.19 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-60 (0.5-2')	3/22/2021	0.5-2	0.23 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.23 U	0.46 U	NA	NA	NA	NA	NA	
	SB-60 (2-4')	3/22/2021	2-4	0.18 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-60 (4-6')	3/22/2021	4-6	0.13 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
SB-61	SB-61 (0-0.5')	3/22/2021	0-0.5	0.17 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-61 (0.5-2')	3/22/2021	0.5-2	0.14 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
	SB-61 (2-4')	3/22/2021	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-61 (4-6')	3/22/2021	4-6	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.20 U	0.39 U	NA	NA	NA	NA	NA	
	SB-61 (6-8')	3/22/2021	6-8	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.23 U	0.47 U	NA	NA	NA	NA	NA	
	SB-61 (10-12')	3/22/2021	10-12	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	0.27 U	0.55 U	NA	NA	NA	NA	NA	
	SB-61 (13-15')	3/22/2021	13-15	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	0.31 U	0.61 U	NA	NA	NA	NA	NA	
SB-62	SB-62 (0-0.5')	3/22/2021	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	NA	NA	NA	NA	NA	
	SB-62 (0.5-2')	3/22/2021	0.5-2	0.10 I	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.19 U	0.19 U	0.38 U	NA	NA	NA	NA	NA	
	SB-62 (2-4')	3/22/2021	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
	SB-62 (4-6')	3/22/2021	4-6	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	

**TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College**

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS	
Class				PFOA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-63	SB-63 (0-0.5')	3/23/2021	0-0.5	0.58 I	6.5	0.43 U	0.41 I	0.29 I	0.47 I	0.35 I	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	NA	0.11 U	0.11 U	
	SB-63 (0.5-2')	3/23/2021	0.5-2	0.20 I	2.0	0.39 U	0.20 I	0.22 I	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	NA	0.097 U	0.097 U	
	SB-63 (2-4')	3/23/2021	2-4	0.20 U	0.67 I	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	
	SB-63 (4-6')	3/23/2021	4-6	0.20 U	0.22 I	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.099 U	0.099 U	
	SB-63 (6-8')	3/23/2021	6-8	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	NA	0.095 U	0.095 U	
	SB-63 (10-12')	3/23/2021	10-12	0.21 U	0.29 I	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.11 U	0.11 U	
	SB-63 (13-15')	3/23/2021	13-15	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.11 U	
	SB-63 (23-25')	3/23/2021	23-25	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	NA	0.12 U	0.12 U	
SB-63 (33-35')	3/23/2021	33-35	0.29 U	0.29 U	0.58 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.58 U	0.29 U	0.29 U	0.29 U	0.29 U	0.58 U	0.29 U	NA	0.14 U	0.14 U		
SB-64	SB-64 (0-0.5')	3/23/2021	0-0.5	0.46 I	5.2	0.40 U	0.40 I	0.26 I	0.40 I	0.21 I	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U	
	SB-64 (0.5-2')	3/23/2021	0.5-2	0.20 U	2.2	0.40 U	0.23 I	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.099 U	0.099 U	
	SB-64 (2-4')	3/23/2021	2-4	0.20 U	3.4	0.40 U	0.20 I	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U	
	SB-64 (4-6')	3/23/2021	4-6	0.20 U	0.38 I	0.41 U	0.20 I	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	
SB-65	SB-65 (0-0.5')	3/24/2021	0-0.5	0.20 U	4.4	0.40 U	0.45 I	0.50 I	0.20 U	0.20 U	0.40 U	0.29 I	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U		
	SB-65 (0.5-2')	3/24/2021	0.5-2	0.21 U	7.2	0.43 U	0.27 I	0.38 I	0.21 U	0.21 U	0.43 U	0.65 I	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U		
SB-66	SB-66 (0-0.5')	3/23/2021	0-0.5	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	NA	0.097 U	0.097 U	
	SB-66 (0.5-2')	3/23/2021	0.5-2	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U	
	SB-66 (2-4')	3/23/2021	2-4	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	
	SB-66 (4-6')	3/23/2021	4-6	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U	
SB-67	SB-67 (0-0.5')	3/23/2021	0-0.5	0.21 U	0.68 I	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U		
	SB-67 (0.5-2')	3/23/2021	0.5-2	0.19 U	0.54 I	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	NA	0.094 U	0.094 U		
	SB-67 (2-4')	3/23/2021	2-4	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	NA	0.097 U	0.097 U		
	SB-67 (4-6')	3/23/2021	4-6	0.25 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	0.50 U	0.25 U	NA	0.13 U	0.13 U		
SB-68	SB-68 (0-0.5')	3/23/2021	0-0.5	0.20 U	0.32 I	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	NA	0.098 U	0.098 U		
	SB-68 (0.5-2')	3/23/2021	0.5-2	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U		
	SB-68 (2-4')	3/23/2021	2-4	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U		
	SB-68 (4-6')	3/23/2021	4-6	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	NA	0.11 U	0.11 U		
	SB-68 (6-8')	3/23/2021	6-8	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	NA	0.12 U	0.12 U		
	SB-68 (10-12')	3/23/2021	10-12	0.30 U	0.30 U	0.60 U	0.30 U	0.30 U	0.30 U	0.30 U	0.60 U	0.30 U	0.30 U	0.30 U	0.30 U	0.60 U	0.30 U	NA	0.15 U	0.15 U		
	SB-68 (13-15')	3/23/2021	13-15	0.26 U	0.26 U	0.53 U	0.26 U	0.26 U	0.26 U	0.26 U	0.53 U	0.26 U	0.26 U	0.26 U	0.26 U	0.53 U	0.26 U	NA	0.13 U	0.13 U		
	SB-68 (23-25')	3/23/2021	23-25	0.27 U	0.27 U	0.54 U	0.27 U	0.27 U	0.27 U	0.27 U	0.54 U	0.27 U	0.27 U	0.27 U	0.27 U	0.54 U	0.27 U	NA	0.13 U	0.13 U		
SB-68 (32-34')	3/23/2021	32-34	0.26 U	0.26 U	0.51 U	0.26 U	0.26 U	0.26 U	0.26 U	0.51 U	0.26 U	0.26 U	0.26 U	0.26 U	0.51 U	0.26 U	NA	0.13 U	0.13 U			
SB-69	SB-69 (0-0.5')	3/24/2021	0-0.5	0.20 U	1.4	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.24 I	0.54 I	0.42 I	0.22 I	0.20 U	0.40 U	0.20 U	NA	0.099 U	0.099 U	
	SB-69 (0.5-2')	3/24/2021	0.5-2	0.21 U	4.5	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.27 I	0.25 I	0.26 I	0.21 U	0.21 U	0.43 I	0.21 U	NA	0.10 U	0.10 U	
	SB-69 (2-4')	3/24/2021	2-4	0.23 U	0.41 I	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.45 U	0.87 I	0.23 U	0.23 U	0.23 U	0.23 U	0.45 U	0.23 U	NA	0.11 U	0.11 U	
	SB-69 (4-6')	3/24/2021	4-6	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.11 U	
SB-70	SB-70 (0-0.5')	3/24/2021	0-0.5	0.21 U	15	0.43 U	0.21 U	0.25 I	0.23 I	0.21 U	0.43 U	0.53 I	0.23 I	1.1	0.21 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U	
	SB-70 (0.5-2')	3/24/2021	0.5-2	0.22 U	0.89	0.43 U	0.22 U	0.22 U	0.24 I	0.22 U	0.43 U	0.54 I	0.22 U	0.54 I	0.22 U	0.22 U	0.43 U	0.22 U	NA	0.11 U	0.11 U	
	SB-70 (2-4')	3/24/2021	2-4	0.23 U	0.99	0.46 U	0.23 U	0.23 U	0.25 I	0.23 U	0.46 U	1.1	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	NA	0.11 U	0.11 U	
	SB-70 (4-6')	3/24/2021	4-6	0.25 U	0.97 I	0.49 U	0.63 I	0.80 I	0.85 I	0.25 U	0.49 U	0.36 I	0.25 U	0.25 U	0.25 U	0.49 U	0.25 U	NA	0.12 U	0.12 U		
SB-71	SB-71 (0-0.5')	3/24/2021	0-0.5	0.19 U	0.67 I	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	NA	0.095 U	0.095 U		
	SB-71 (0.5-2')	3/24/2021	0.5-2	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U		
	SB-71 (2-4')	3/24/2021	2-4	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	NA	0.095 U	0.095 U		
	SB-71 (4-6')	3/24/2021	4-6	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.11 U		

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replcement	Replacement	Replacement	Replacement	Misc	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-63	SB-63 (0-0.5')	3/23/2021	0-0.5	0.32 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	NA	NA	NA	NA	NA	
	SB-63 (0.5-2')	3/23/2021	0.5-2	0.12 I	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.19 U	0.39 U	NA	NA	NA	NA	NA	
	SB-63 (2-4')	3/23/2021	2-4	0.11 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.41 U	NA	NA	NA	NA	NA	
	SB-63 (4-6')	3/23/2021	4-6	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-63 (6-8')	3/23/2021	6-8	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.19 U	0.19 U	0.38 U	NA	NA	NA	NA	NA	
	SB-63 (10-12')	3/23/2021	10-12	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-63 (13-15')	3/23/2021	13-15	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	NA	NA	NA	NA	NA	
SB-64	SB-64 (0-0.5')	3/23/2021	0-0.5	0.22 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-64 (0.5-2')	3/23/2021	0.5-2	0.12 I	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-64 (2-4')	3/23/2021	2-4	0.11 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
SB-65	SB-65 (0-0.5')	3/24/2021	0-0.5	0.18 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-65 (0.5-2')	3/24/2021	0.5-2	0.23 I	0.11 U	0.11 U	0.21 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	NA	NA	NA	NA	NA	
SB-66	SB-66 (0-0.5')	3/23/2021	0-0.5	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.19 U	0.39 U	NA	NA	NA	NA	NA	
	SB-66 (0.5-2')	3/23/2021	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-66 (2-4')	3/23/2021	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.41 U	NA	NA	NA	NA	NA	
SB-67	SB-67 (0-0.5')	3/23/2021	0-0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-67 (0.5-2')	3/23/2021	0.5-2	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.19 U	0.19 U	0.38 U	NA	NA	NA	NA	NA	
	SB-67 (2-4')	3/23/2021	2-4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.19 U	0.39 U	NA	NA	NA	NA	NA	
SB-68	SB-68 (0-0.5')	3/23/2021	0-0.5	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.20 U	0.39 U	NA	NA	NA	NA	NA	
	SB-68 (0.5-2')	3/23/2021	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-68 (2-4')	3/23/2021	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
	SB-68 (4-6')	3/23/2021	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	NA	NA	NA	NA	NA	
	SB-68 (6-8')	3/23/2021	6-8	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.24 U	0.48 U	NA	NA	NA	NA	NA	
	SB-68 (10-12')	3/23/2021	10-12	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.30 U	0.60 U	NA	NA	NA	NA	NA	
	SB-68 (13-15')	3/23/2021	13-15	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.26 U	0.53 U	NA	NA	NA	NA	NA	
SB-69	SB-69 (0-0.5')	3/24/2021	0-0.5	0.099 U	0.099 U	0.099 U	0.10 I	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-69 (0.5-2')	3/24/2021	0.5-2	0.15 I	0.10 U	0.10 U	0.18 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
	SB-69 (2-4')	3/24/2021	2-4	0.11 U	0.11 U	0.11 U	0.15 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.45 U	NA	NA	NA	NA	NA	
	SB-69 (4-6')	3/24/2021	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	NA	NA	NA	NA	NA	
SB-70	SB-70 (0-0.5')	3/24/2021	0-0.5	0.84	0.11 U	0.11 U	0.11 U	0.31 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	NA	NA	NA	NA	NA	
	SB-70 (0.5-2')	3/24/2021	0.5-2	0.11 U	0.11 U	0.11 U	0.19 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	NA	NA	NA	NA	NA	
	SB-70 (2-4')	3/24/2021	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.46 U	NA	NA	NA	NA	NA	
SB-71	SB-71 (0-0.5')	3/24/2021	0-0.5	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.19 U	0.19 U	0.38 U	NA	NA	NA	NA	NA	
	SB-71 (0.5-2')	3/24/2021	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
	SB-71 (2-4')	3/24/2021	2-4	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.19 U	0.19 U	0.38 U	NA	NA	NA	NA	NA	
	SB-71 (4-6')	3/24/2021	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	NA	NA	NA	NA	NA	

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPoS	PFBS	PFPeS
Class				PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPoS	PFBS	PFPeS
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-72	SB-72 (0-0.5')	3/24/2021	0-0.5	0.21 U	0.38 I	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U
	SB-72 (0.5-2')	3/24/2021	0.5-2	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U
	SB-72 (2-4')	3/24/2021	2-4	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	NA	0.097 U	0.097 U
	SB-72 (4-6')	3/24/2021	4-6	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.11 U	0.11 U
	SB-72 (6-8')	3/24/2021	6-8	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.11 U	0.11 U
	SB-72 (10-12')	3/24/2021	10-12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U
SB-72	SB-72 (13-15')	3/24/2021	13-15	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	NA	0.11 U	0.11 U
	SB-72 (23-25')	3/24/2021	23-25	0.27 U	0.27 U	0.54 U	0.27 U	0.27 U	0.27 U	0.27 U	0.54 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.54 U	0.27 U	NA	0.13 U	0.13 U
	SB-72 (33-35')	3/24/2021	33-35	0.34 U	1.2 I	0.69 U	0.34 U	0.34 U	0.34 U	0.34 U	0.69 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.69 U	0.34 U	NA	0.17 U	0.17 U
SB-73	SB-73 (0-0.5')	3/24/2021	0-0.5	0.20 U	0.73 I	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	NA	0.099 U	0.099 U
	SB-73 (0.5-2')	3/24/2021	0.5-2	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U
	SB-73 (2-4')	3/24/2021	2-4	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U
	SB-73 (4-6')	3/24/2021	4-6	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U
SB-74	SB-74 (0-0.5')	3/24/2021	0-0.5	0.21 U	0.41 I	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U
	SB-74 (0.5-2')	3/24/2021	0.5-2	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	NA	0.098 U	0.098 U
	SB-74 (2-4')	3/24/2021	2-4	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U
	SB-74 (4-6')	3/24/2021	4-6	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	NA	0.11 U	0.11 U
SB-75	SB-75 (0-0.5)	3/28/2022	0-0.5	0.25 U	2.0	0.50 U	0.67 I	0.25 U	0.25 U	0.25 U	0.50 U	0.32 I	0.68 I	0.25 U	0.41 I	0.25 U	2.0 U	0.25 U	0.25 U	0.12 U	0.12 U
	SB-75 (0.5-2)	3/28/2022	0.5-2	0.23 U	6.5	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.9 U	0.23 U	0.23 U	0.12 U	0.12 U
	SB-75 (2-4)	3/28/2022	2-4	0.22 U	4.6	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.8 U	0.22 U	0.22 U	0.11 U	0.11 U
SB-76	SB-76 (0-0.5)	3/28/2022	0-0.5	0.22 U	3.6	0.44 U	0.32 I	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.8 U	0.22 U	0.22 U	0.11 U	0.11 U
	SB-76 (0.5-2)	3/28/2022	0.5-2	0.23 U	2.0	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.8 U	0.23 U	0.23 U	0.11 U	0.11 U
	SB-76 (2-4)	3/28/2022	2-4	0.22 U	12	0.44 U	0.22 U	0.22 U	0.22 U	0.26 I	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.8 U	0.22 U	0.22 U	0.11 U	0.11 U
SB-77	SB-77 (0-0.5)	3/28/2022	0-0.5	0.22 U	1.1	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.8 U	0.22 U	0.22 U	0.11 U	0.11 U
	SB-77 (0.5-2)	3/28/2022	0.5-2	0.22 U	0.46 I	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.7 U	0.22 U	0.22 U	0.11 U	0.11 U
	SB-77 (2-4)	3/28/2022	2-4	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.7 U	0.22 U	0.22 U	0.11 U	0.11 U

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replcement	Replacement	Replacement	Replacement	Misc	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-72	SB-72 (0-0.5')	3/24/2021	0-0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
	SB-72 (0.5-2')	3/24/2021	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	NA	NA	NA	NA	NA	
	SB-72 (2-4')	3/24/2021	2-4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.19 U	0.39 U	NA	NA	NA	NA	NA	
	SB-72 (4-6')	3/24/2021	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-72 (6-8')	3/24/2021	6-8	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-72 (10-12')	3/24/2021	10-12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
SB-72	SB-72 (13-15')	3/24/2021	13-15	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	NA	NA	NA	NA	NA	
	SB-72 (23-25')	3/24/2021	23-25	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.27 U	0.54 U	NA	NA	NA	NA	NA	
SB-73	SB-72 (33-35')	3/24/2021	33-35	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.34 U	0.69 U	NA	NA	NA	NA	NA	
	SB-73 (0-0.5')	3/24/2021	0-0.5	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.20 U	0.20 U	0.40 U	NA	NA	NA	NA	NA	
	SB-73 (0.5-2')	3/24/2021	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	NA	NA	NA	NA	NA	
	SB-73 (2-4')	3/24/2021	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.27 I	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	
SB-74	SB-73 (4-6')	3/24/2021	4-6	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.19 I	0.10 U	0.20 U	0.20 U	0.41 U	NA	NA	NA	NA	NA	
	SB-74 (0-0.5')	3/24/2021	0-0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
	SB-74 (0.5-2')	3/24/2021	0.5-2	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.20 U	0.39 U	NA	NA	NA	NA	NA	
	SB-74 (2-4')	3/24/2021	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA	
SB-75	SB-74 (4-6')	3/24/2021	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.46 U	NA	NA	NA	NA	NA	
	SB-75 (0-0.5')	3/28/2022	0-0.5	0.42 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
	SB-75 (0.5-2')	3/28/2022	0.5-2	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.23 U	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
SB-76	SB-75 (2-4)	3/28/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
	SB-76 (0-0.5')	3/28/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
	SB-76 (0.5-2')	3/28/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
SB-77	SB-76 (2-4)	3/28/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
	SB-77 (0-0.5')	3/28/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
	SB-77 (0.5-2')	3/28/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
	SB-77 (2-4)	3/28/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	

**TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College**

Notes:

1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
2. ft BLS indicates feet below land surface.
3. U indicates that the compound was analyzed for but not detected (the laboratory method detection limit [MDL] is shown).
4. I indicates the result is between the laboratory MDL and the practical quantitation limit.
5. J indicates an estimated value and/or the analysis did not meet established quality control criteria.
6. SB-45 samples 0 to 4 ft BLS and SB-45 samples greater than 4 ft BLS were collected in separate boreholes. See Figure 11.
7. Grey shaded, bold text indicates an exceedance of the FDEP Provisional leachability soil cleanup target level (SCTL).
8. "--" indicates no screening criteria.
9. NA indicates constituent was not analyzed for.
10. PFAS indicates per- and polyfluoroalkyl substances.
11. PFCA indicates perfluoroalkyl carboxylic acids.
12. PFSA indicates perfluoroalkane sulfonic acids.
13. * indicates the analyte contains multiple perfluorinated sections.

Analyte	Acronym	Class	Carbon Chain Length
Perfluorooctanoic acid	PFOA	PFCA	8
Perfluorooctane sulfonate	PFOS	PFSA	8
Perfluorobutanoic acid	PFBA	PFCA	4
Perfluoropentanoic acid	PFPeA	PFCA	5
Perfluorohexanoic acid	PFHxA	PFCA	6
Perfluoroheptanoic acid	PFHpA	PFCA	7
Perfluorononanoic acid	PFNA	PFCA	9
Perfluorodecanoic acid	PFDA	PFCA	10
Perfluoroundecanoic acid	PFUnA	PFCA	11
Perfluorododecanoic acid	PFDoA	PFCA	12
Perfluorotridecanoic Acid	PFTriA	PFCA	13
Perfluorotetradecanoic acid	PFTeA	PFCA	14
4:2 Fluorotelomer sulfonate	4:2 FTS	PFCA Precursor	4
6:2 Fluorotelomer sulfonate	6:2 FTS	PFCA Precursor	6
8:2 Fluorotelomer sulfonate	8:2 FTS	PFCA Precursor	8
Perfluoropropanesulfonic acid	PFPrS	PFSA	3
Perfluorobutanesulfonic acid	PFBS	PFSA	4
Perfluoropentanesulfonic acid	PFPeS	PFSA	5
Perfluorohexanesulfonic acid	PFHxS	PFSA	6
Perfluoroheptanesulfonic acid	PFHpS	PFSA	7
Perfluoronanesulfonic acid	PFNS	PFSA	9
Perfluorodecanesulfonic acid	PFDS	PFSA	10
Perfluoro-1-butane sulfonamide	FBSA	PFSA Precursor	4
Perfluoro-1-hexane sulfonamide	FHxSA	PFSA Precursor	6
Perfluorooctane Sulfonamide	FOSA	PFSA Precursor	8
N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	PFSA Precursor	8
N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	PFSA Precursor	8
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	Replacement	*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	Replacement	*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	Replacement	*
Hexafluoropropylene oxide dimer acid	HFPO-DA	Replacement	*
Perfluoro-3-methoxypropanoic acid	PFMPA	Misc.	*
Perfluoro-4-methoxybutanoic acid	PFMBA	Misc.	*
Perfluoro-4-ethylcyclohexanesulfonic acid	PFECHS	Misc.	*
Perfluoro(2-ethoxyethane)sulfonic acid	PFEEESA	Misc.	*
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	Misc.	*

TABLE 5: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Screen Interval (ft BLS)	PFOA	PFOS	PFOA+PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	
Class				PFOA	PFSA	N/A	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	N/A	4	5	6	7	9	10	11	12	13	14		4	6	8	3	4	5
Provisional GCTL (ng/L)				70	70	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-1	SP-1 (36-40')	10/14/2020	36-40	24	610	634	NA	43	35	36	40	4.8 I	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	41	2.0 U	NA	25	16	
SP-2	SP-2 (32-36')	10/12/2020	32-36	120	5,900	6,020	NA	210	200	190	68	4.6 I	2.0 U	2.0 U	2.0 U	2.0 U	7.0 I	560	1,200	NA	46	42	
	SP-2 (46-50')	3/29/2021	46-50	1,100	540	1,640	110	320	390	130	4.7 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16	530	17	NA	180	210	
	SP-2 (46-50') DUP	3/29/2021	46-50	940	500	1,440	110	320	360	160	4.9 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	17	490	17	NA	180	200	
	SP-2 (66-70')	3/29/2021	66-70	2,000	8,500	10,500	750	2,600	2,500	1,600	58 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	190	13,000	14	NA	600	730	
	SP-2 (86-90')	3/29/2021	86-90	85	630	715	35	110	100	79	3.1 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.5 I	390	23	NA	30	33	
SP-3	SP-3 (31-35')	10/13/2020	31-35	260	3,500	3,760	NA	340	320	450 I	98	6.3 I	2.0 U	2.0 U	2.0 U	2.0 U	12	950	910	NA	48	48	
	SP-3 (31-35') DUP	10/13/2020	31-35	250	3,600	3,850	NA	360	360	440	91	5.2 I	2.0 U	2.0 U	2.0 U	2.0 U	13	1,000	900	NA	49	47	
	SP-3 (46-50')	3/26/2021	46-50	140	1,400	1,540	73	200	200	210	39	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.1 I	340	240	NA	30	26	
	SP-3 (66-70')	3/26/2021	66-70	3,800	12,000	15,800	11,000	39,000	23,000	17,000	140	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	760	17,000	280	NA	1,500	2,000	
	SP-3 (66-70') DUP	3/26/2021	66-70	3,900	14,000	17,900	12,000	44,000	26,000	19,000	150	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	780	18,000	300	NA	1,600	2,100	
SP-3 (86-90')	3/26/2021	86-90	640	2,800	3,440	1,400	4,800	3,400	2,400	57	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	120	1,900	210	NA	280	290		
SP-4	SP-4 (33-37')	10/12/2020	33-37	130	2,700	2,830	NA	180	240	130	76	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	82	24	NA	76	90	
SP-5	SP-5 (31-35')	10/13/2020	31-35	250	71,000	71,250	NA	300	3,400	320	6.4 I	41	17	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	39 I	NA	42	73	
	SP-5 (46-50')	3/29/2021	46-50	150	66,000	66,150	74	240	4,600	140	8.8	6.2 I	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	45	10	NA	95	100	
	SP-5 (66-70')	4/8/2021	66-70	420	3,900	4,320	390	4,955	1,400	360	52	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	110	2,600	42	NA	560	700	
	SP-5 (82-86')	4/8/2021	82-86	160	10,000	10,160	150	430	1,500	210	18	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	23	540	6.9 I	NA	180	220	
	SP-5 (82-86') DUP	4/8/2021	82-86	120	4,700	4,820	140	390	510	210	18	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20	430	8.3	NA	160	210	
SP-6	SP-6 (31-35')	10/13/2020	31-35	18	2,700	2,718	NA	28	33	20	7.2 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	6.8 I	NA	28	21	
SP-7	SP-7 (31-35')	10/14/2020	31-35	97	930	1,027	NA	97	110	73	54	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	15 I	2.9 I	NA	31	33	
SP-8	SP-8 (32-36')	3/24/2021	32-36	21	480	501	17	28	29	25	47	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	21	11	
	SP-8 (46-50')	3/24/2021	46-50	26	260	286	19	38	43	30	28	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	27	14	
	SP-8 (66-70')	3/25/2021	66-70	18	270	288	13 I	31	26	26	7.6 I	4.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	18	17	
	SP-8 (86-90')	3/25/2021	86-90	7.2 I	78	85	5.9 I	12	13	8.7	2.8 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	6.6	7.8	
SP-9	SP-9 (31-35')	3/22/2021	31-35	22	230	252	17	28	30	23	7.2 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	29	14	
	SP-9 (31-35') DUP	3/22/2021	31-35	22	200	222	18	25	31	24	5.6 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	27	13	
	SP-9 (46-50')	3/22/2021	46-50	13	160	173	10 I	23	25	14	3.8 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	25	14	
	SP-9 (61-65')	3/22/2021	61-65	14	140	154	15 I	22	26	16	5.5 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	25	12	
SP-10	SP-10 (36-40')	3/23/2021	36-40	11	110	121	14 I	24	24	14	3.7 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	24	11	
	SP-10 (46-50')	3/23/2021	46-50	12	130	142	11 I	25	27	16	4.6 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	23	12	
	SP-10 (66-70')	3/23/2021	66-70	7.3 I	150	157	6.0 I	12	15	7.1 I	3.4 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	15	14	
	SP-10 (86-90')	3/23/2021	86-90	14	180	194	12 I	26	30	16	3.5 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	25	13	
SP-11	SP-11 (31-35')	3/30/2021	31-35	9.0	74	83	4.6 I	12	11	7.5 I	2.0 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	13	5.8	
	SP-11 (46-50')	3/30/2021	46-50	8.0 I	91	99	5.7 I	11	13	6.0 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	22	12	
	SP-11 (66-70')	3/30/2021	66-70	5.4 I	130	135	4.0 U	7.8 I	9.3	4.9 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	6.4 I	2.0 U	NA	8.6	4.3	
	SP-11 (81-85')	3/30/2021	81-85	9.0	110	119	7.1 I	12	15	7.4 I	2.6 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	9.4 I	5.6 I	NA	14	9.3	
SP-12	SP-12 (36-40')	4/1/2021	36-40	5.9 I	75	81	4.7 I	6.4 I	8.7	6.3 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	12	8.0	
	SP-12 (36-40') DUP	4/1/2021	36-40	5.7 I	72	78	4.1 I	6.7 I	9.2	5.6 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	12	7.7	
	SP-12 (46-50')	4/1/2021	46-50	3.5 I	66 J	70	4.3 I	5.6 I	7.5 I	4.3 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	11	7.9	
	SP-12 (66-70')	4/1/2021	66-70	4.6 I	110	115	4.0 U	6.2 I	9.0	4.3 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	11	5.6	
SP-13	SP-13 (46-50')	4/1/2021	46-50	3.7 I	110	114	4.0 U	4.6 I	8.3	4.4 I	2.1 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	8.9	5.5	
	SP-13 (66-70')	4/1/2021	66-70	10	190	200	6.5 I	15	26	12	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	19	19	
SP-14	SP-14 (36-40')	4/5/2021	36-40	2.0 U	4.5 I	5.5	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	1.9	0.40 U	
	SP-14 (46-50')	4/5/2021	46-50	25 UJ	25 UJ	50	50 UJ	25 UJ	25 UJ	25 UJ	25 UJ	50 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	50 UJ	25 UJ	NA	5.0 UJ	5.0 UJ	
	SP-14 (46-50') DUP	4/5/2021	46-50	25 UJ	25 UJ	50	50 UJ	25 UJ	25 UJ	25 UJ	25 UJ	50 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	50 UJ	25 UJ	NA	5.0 UJ	5.0 UJ	
	SP-14 (66-70')	4/5/2021	66-70	25 UJ	25 UJ	50	50 UJ	25 UJ	25 UJ	25 UJ	25 UJ	50 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	50 UJ	25 UJ	NA	5.0 UJ	5.0 UJ	
SP-14 (86-90')	4/5/2021	86-90	25 UJ	25 UJ	50	50 UJ	25 UJ	25 UJ	25 UJ	25 UJ	50 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	50 UJ	25 UJ	NA	5.0 UJ	5.0 UJ		

TABLE 5: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Screen Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional GCTL (ng/L)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-1	SP-1 (36-40')	10/14/2020	36-40	130	4.5	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	4.0 U	NA	NA	NA	NA	NA	
SP-2	SP-2 (32-36')	10/12/2020	32-36	570	27	3.4	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	4.0 U	NA	NA	NA	NA	NA	
	SP-2 (46-50')	3/29/2021	46-50	2,200	38	0.40 U	0.40 U	98	500	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-2 (46-50') DUP	3/29/2021	46-50	2,100	36	0.40 U	0.40 U	100	520	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-2 (66-70')	3/29/2021	66-70	11,000	530	0.40 U	0.40 U	620	2,100	0.78 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-2 (86-90')	3/29/2021	86-90	420	17	0.40 U	0.40 U	23	69	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-3	SP-3 (31-35')	10/13/2020	31-35	600	37	5.2	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	4.0 U	NA	NA	NA	NA	NA	
	SP-3 (31-35') DUP	10/13/2020	31-35	670	35	4.9	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	4.0 U	NA	NA	NA	NA	NA	
	SP-3 (46-50')	3/26/2021	46-50	300	12	0.51 I	0.40 U	22	96	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-3 (66-70')	3/26/2021	66-70	13,000	330	0.40 U	0.40 U	290	360	13	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-3 (66-70') DUP	3/26/2021	66-70	14,000	320	0.40 U	0.40 U	300	360	14	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-4	SP-4 (33-37')	10/12/2020	33-37	930	69	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	4.0 U	NA	NA	NA	NA	NA	
SP-5	SP-5 (31-35')	10/13/2020	31-35	3,100	46	680	300	NA	NA	NA	8.0 U	8.0 U	NA	NA	NA	4.0 U	NA	NA	NA	NA	NA	
	SP-5 (46-50')	3/29/2021	46-50	2,800	130	230	49	180	15,000	200	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-5 (66-70')	4/8/2021	66-70	4,500	420	0.40 U	0.40 U	200	390	1.7	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-5 (82-86')	4/8/2021	82-86	1,500	75	14	7.9	120	2,700	57	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-5 (82-86') DUP	4/8/2021	82-86	950	44	13	4.5	97	800	28	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-6	SP-6 (31-35')	10/13/2020	31-35	290	18	1.1 I	1.9	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	4.0 U	NA	NA	NA	NA	NA	
SP-7	SP-7 (31-35')	10/14/2020	31-35	280	26	0.40 U	0.94 I	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	4.0 U	NA	NA	NA	NA	NA	
SP-8	SP-8 (32-36')	3/24/2021	32-36	110	5.7	1.6	1.3 I	3.9	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-8 (46-50')	3/24/2021	46-50	150	4.2	0.40 U	0.40 U	6.6	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-8 (66-70')	3/25/2021	66-70	130	3.5	0.40 U	0.40 U	14	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-8 (86-90')	3/25/2021	86-90	53	1.7 I	0.40 U	0.40 U	4.3	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-9	SP-9 (31-35')	3/22/2021	31-35	130	2.8 I	0.40 U	0.40 U	4.6	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-9 (31-35') DUP	3/22/2021	31-35	130	2.8 I	0.40 U	0.40 U	3.8	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-9 (46-50')	3/22/2021	46-50	100	1.8 I	0.40 U	2.8	13	8.6	0.46 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-10	SP-9 (61-65')	3/22/2021	61-65	91	2.0 I	0.40 U	0.98 I	5.3	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-10 (36-40')	3/23/2021	36-40	99	2.3 I	0.40 U	1.1 I	3.0	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-10 (46-50')	3/23/2021	46-50	94	2.4 I	0.40 U	1.3 I	5.2	0.61 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-10 (66-70')	3/23/2021	66-70	110	4.4	0.40 U	2.3	11	1.9	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-11	SP-10 (86-90')	3/23/2021	86-90	96	2.2 I	0.40 U	0.64 I	6.9	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-11 (31-35')	3/30/2021	31-35	44	0.97 I	0.40 U	0.40 U	3.3	0.44 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-11 (46-50')	3/30/2021	46-50	92	1.2 I	0.40 U	0.40 U	2.1	0.90 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-11 (66-70')	3/30/2021	66-70	34	0.94 I	0.40 U	0.40 U	2.2	24	1.1 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-12	SP-11 (81-85')	3/30/2021	81-85	56	1.5 I	0.40 U	0.40 U	3.4	15	0.78 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-12 (36-40')	4/1/2021	36-40	65	1.6 I	0.40 U	0.40 U	1.3 I	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-12 (36-40') DUP	4/1/2021	36-40	66	1.5 I	0.40 U	0.40 U	1.2 I	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-12 (46-50')	4/1/2021	46-50	57	1.0 I	0.40 U	0.40 U	1.8	0.40 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-13	SP-12 (66-70')	4/1/2021	66-70	47	1.4 I	0.40 U	0.40 U	1.2 I	5.9	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-13 (46-50')	4/1/2021	46-50	52	1.4 I	0.40 U	0.40 U	1.3 I	2.6	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-14	SP-13 (66-70')	4/1/2021	66-70	150	5.8	0.40 U	0.40 U	7.6	3.0	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-14 (36-40')	4/5/2021	36-40	1.6 I	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-14 (46-50')	4/5/2021	46-50	10 UJ	10 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	10 UJ	10 UJ	5.0 UJ	25 UJ	25 UJ	50 UJ	NA	NA	NA	NA	NA	
	SP-14 (46-50') DUP	4/5/2021	46-50	10 UJ	10 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	10 UJ	10 UJ	5.0 UJ	25 UJ	25 UJ	50 UJ	NA	NA	NA	NA	NA	
SP-14	SP-14 (66-70')	4/5/2021	66-70	10 UJ	10 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	10 UJ	10 UJ	5.0 UJ	25 UJ	25 UJ	50 UJ	NA	NA	NA	NA	NA	
	SP-14 (86-90')	4/5/2021	86-90	10 UJ	10 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	10 UJ	10 UJ	5.0 UJ	25 UJ	25 UJ	50 UJ	NA	NA	NA	NA	NA	

TABLE 5: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Screen Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional GCTL (ng/L)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-15	SP-15 (41-45')	3/25/2021	41-45	520	36	0.62 I	0.40 U	71	470	1.1 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-15 (46-50')	3/25/2021	46-50	1,100	78	1.6	0.40 U	150	830	2.5	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-15 (46-50') DUP	3/25/2021	46-50	1,200	81	1.7	0.40 U	130	750	2.5	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-15 (66-70')	3/25/2021	66-70	1,700	120	0.40 U	0.40 U	230	430	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-16	SP-15 (86-90')	3/25/2021	86-90	360	36	0.40 U	0.40 U	99	170	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-16 (36-40')	4/6/2021	36-40	510	28	0.40 U	0.40 U	49	200	0.72 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-16 (46-50')	4/6/2021	46-50	780	28	0.40 U	0.40 U	64	84	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-16 (66-70')	4/6/2021	66-70	1,300	71	0.40 U	0.40 U	85	140	0.42 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-17	SP-16 (78-82')	4/6/2021	78-82	470	20	0.40 U	0.40 U	29	30	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-17 (36-40')	3/31/2021	36-40	220	6.9	0.40 U	0.40 U	12	56	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-17 (46-50')	3/31/2021	46-50	390	13	0.40 U	0.40 U	24	140	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-17 (66-70')	3/31/2021	66-70	290	12	0.40 U	0.40 U	20	23	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-18	SP-17 (82-86')	3/31/2021	82-86	240	8.0	0.40 U	0.40 U	13	49	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-18 (36-40')	4/6/2021	36-40	500	21	0.93 I	0.40 U	45	220	2.3	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-18 (46-50')	4/6/2021	46-50	1,500	62	0.40 U	0.40 U	72	170	0.51 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-18 (66-70')	4/6/2021	66-70	6.4	0.80 U	0.40 U	0.40 U	0.40 U	0.83 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-19	SP-18 (82-86')	4/6/2021	82-86	6.7	0.80 U	0.40 U	0.40 U	0.40 U	0.72 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-19 (35-39')	3/23/2021	35-39	69	1.5 I	0.40 U	0.40 U	3.5	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-19 (46-50')	3/23/2021	46-50	54	1.3 I	0.40 U	4.6	5.7	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-19 (66-70')	3/23/2021	66-70	37	0.80 U	0.40 U	2.3	0.77 I	2.8	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-20	SP-19 (86-90')	3/23/2021	86-90	55	1.4 I	0.40 U	1.1 I	2.1	0.40 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-20 (36-40')	4/7/2021	36-40	860	38	0.40 U	0.40 U	72	260	1.4 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-20 (46-50')	4/7/2021	46-50	640	30	0.40 U	0.40 U	41	240	1.5 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-20 (66-70')	4/7/2021	66-70	560	29	0.40 U	0.40 U	35	200	1.5 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-21	SP-20 (86-90')	4/7/2021	86-90	310	13	0.40 U	0.40 U	17	130	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-21 (36-40')	4/7/2021	36-40	96	2.7 I	0.40 U	0.40 U	7.4	1.5 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-21 (46-50')	4/7/2021	46-50	89	2.3 I	0.40 U	0.40 U	5.9	3.1	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-21 (66-70')	4/7/2021	66-70	94	2.7 I	0.40 U	0.40 U	6.9	1.5 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-22	SP-21 (86-90')	4/7/2021	86-90	110	2.7 I	0.40 U	0.40 U	8.4	4.0	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-22 (36-40')	3/31/2021	36-40	110	3.1 I	0.40 U	0.40 U	4.3	1.3 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-22 (46-50')	3/31/2021	46-50	97	1.8 I	0.40 U	0.40 U	5.3	1.9	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-22 (66-70')	3/31/2021	66-70	76	1.7 I	0.40 U	0.40 U	4.4	4.8	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-23	SP-22 (86-90')	3/31/2021	86-90	58	0.80 U	0.40 U	0.40 U	0.67 I	1.6	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-22 (86-90') DUP	3/31/2021	86-90	59	0.80 U	0.40 U	0.40 U	0.61 I	1.4 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-23 (36-40')	4/5/2021	36-40	44	1.1 I	0.40 U	0.40 U	2.2	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-23 (46-50')	4/8/2021	46-50	71	1.7 I	0.40 U	0.40 U	4.7	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-24	SP-23 (66-70')	4/8/2021	66-70	69	1.5 I	0.40 U	0.40 U	5.2	3.1	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-23 (66-70') DUP	4/8/2021	66-70	67	1.5 I	0.40 U	0.40 U	5.4	3.5	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-23 (78-82')	4/8/2021	78-82	1.7 I	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-24 (36-40')	4/2/2021	36-40	190	5.8	0.40 U	0.40 U	11	49	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-25	SP-24 (46-50')	4/2/2021	46-50	300	9.0	0.40 U	0.40 U	19	83	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-24 (66-70')	4/2/2021	66-70	430	16	0.40 U	0.40 U	20	73	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-24 (78-82')	4/2/2021	78-82	300	12	0.40 U	0.40 U	14	95	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-25 (36-40')	3/30/2021	36-40	2.4 I	0.80 U	0.40 U	0.40 U	0.58 I	2.5	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
SP-26	SP-25 (46-50')	3/30/2021	46-50	2.3 I	0.80 U	0.40 U	0.40 U	0.51 I	1.1 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-25 (66-70')	3/30/2021	66-70	4.0	0.80 U	0.40 U	0.40 U	0.40 U	2.8	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	SP-26 (36-40)	3/29/2022	36-40	340	10	0.43 U	0.43 U	34	340	1.7 I	0.85 U	0.85 U	0.43 U	2.1 U	2.1 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	8.5 U	
SP-26	SP-26 (46-50)	3/29/2022	46-50	520	16	0.40 U	0.40 U	45	370	1.2 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
	SP-26 (66-70')	3/29/2022	66-70	290	13	0.79 U	0.79 U	14	110	0.79 U	1.6 U	1.6 U	0.79 U	4.0 U	4.0 U	7.9 U	7.9 U	7.9 U	7.9 U	7.9 U	16 U	
	SP-26 (86-90')	3/30/2022	86-90	92	4.1	0.41 U	0.41 U	6.5	16	0.41 U	0.81 U	0.81 U	0.41 U	2.0 U	2.0 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.1 U	

TABLE 5: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Screen Interval (ft BLS)	PFOA	PFOS	PFOA+PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPoS	PFBS	PFPeS
Class				PFOA	PFSA	N/A	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	N/A	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5
Provisional GCTL (ng/L)				70	70	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-27	SP-27 (36-40)	3/28/2022	36-40	8.6	70	79	6.7 I	20	15	9.4	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	12	8.4
	SP-27 (46-50)	3/28/2022	46-50	7.6 I	77	85	6.2 I	20	14	7.8 I	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	4.4 U	11	9.7
	SP-27 (46-50) DUP	3/28/2022		6.3 I	77	83	6.8 I	17	16	8.5 I	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	4.4 U	11	9.7
	SP-27 (66-70)	3/28/2022	66-70	6.0 I	84	90	4.5 U	15	11	8.8 I	2.2 U	4.5 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	4.5 U	10	8.8
	SP-27 (74-78)	3/28/2022	74-78	5.4 I	72	77	8.8 I	16	12 I	7.6 I	3.2 U	6.4 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	26 U	3.2 U	6.4 U	14	6.6
SP-28	SP-28 (41-45)	3/29/2022	41-45	10	98	108	9.5 I	28	24	13	3.2 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	16	13
	SP-28 (46-50)	3/29/2022	46-50	11	110	121	8.8 I	28	23	15	2.7 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	19	15
	SP-28 (66-70)	3/29/2022	66-70	9.7	120	130	8.8 I	29	19	14	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	4.4 U	20	18
	SP-28 (86-90)	3/29/2022	86-90	8.7 I	150	159	13 I	34	27	18	4.9 I	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	4.4 U	22	25
SP-29	SP-29 (36-40)	3/30/2022	36-40	4.0 I	5.8 I	9.8	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	3.9	1.6
	SP-29 (46-50)	3/30/2022	46-50	5.3 I	54	59	5.8 I	14	12	5.1 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	14	7.4
	SP-29 (66-70)	3/30/2022	66-70	8.0 I	58	66	4.8 U	13	13	7.3 I	2.4 U	4.8 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	19 U	2.4 U	4.8 U	15	7.2
SP-30	SP-30 (41-45)	3/31/2022	41-45	2.7 U	4.9 I	6.3	5.4 U	2.7 U	2.7 U	2.7 U	2.7 U	5.4 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	22 U	2.7 U	5.4 U	1.1 I	0.54 U
	SP-30 (46-50)	3/31/2022	46-50	2.7 I	13	16	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	8.5 I	2.4	1.8
	SP-30 (66-70)	3/31/2022	66-70	2.1 U	2.1 U	2.1	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.3 U	0.43 U	0.43 U
	SP-30 (66-70) DUP	3/31/2022		2.1 U	2.1 U	2.1	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.3 U	0.43 U	0.43 U
	SP-30 (86-90)	3/31/2022	86-90	2.8 U	20	21	5.6 U	2.8 U	2.8 U	2.8 U	2.8 U	5.6 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	22 U	2.8 U	5.6 U	3.5	2.9
SP-31	SP-31 (41-45)	4/1/2022	41-45	7.3 I	60	67	4.0 U	7.8 I	6.9 I	7.0 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.6 I	6.1	2.4
	SP-31 (46-50)	4/1/2022	46-50	2.0 U	4.1 I	5.1	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	1.0 I	0.41 U
	SP-31 (66-70)	4/1/2022	66-70	2.1 U	4.8 I	5.9	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	1.2 I	0.42 U
	SP-31 (82-86)	4/1/2022	82-86	3.0 U	38	40	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	24 U	3.0 U	7.6 I	5.6	1.2 I
SP-32	SP-32 (36-40)	4/4/2022	36-40	3.3 I	45	48	4.5 I	9.7	7.3 I	5.6 I	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	6.9	4.1
	SP-32 (46-50)	4/4/2022	46-50	3.5 I	41	45	4.3 I	7.8 I	3.8 I	5.0 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	6.4	6.2
	SP-32 (66-70)	4/4/2022	66-70	4.6 I	89	94	6.9 I	19	13	4.7 I	2.4 U	4.8 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	19 U	2.4 U	4.8 U	11	8.9
	SP-32 (86-90)	4/4/2022	86-90	2.5 I	48	51	4.5 U	11	6.8 I	6.4 I	2.2 U	4.5 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	4.5 U	8.7	6.8
SP-33	SP-33 (36-40)	4/4/2022	36-40	6.2 I	41	47	4.5 I	13	7.6 I	6.6 I	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	12	4.1
	SP-33 (46-50)	4/4/2022	46-50	3.6 I	30	34	4.0 U	6.8 I	3.0 I	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	8.6	2.2
	SP-33 (46-50) DUP	4/4/2022		3.6 I	35	39	4.0 U	6.6 I	3.5 I	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	10	2.0
	SP-33 (66-70)	4/4/2022	66-70	2.5 I	40	43	4.3 U	5.7 I	6.4 I	3.8 I	2.2 U	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	17 U	2.2 U	4.3 U	9.0	2.0
	SP-33 (86-90)	4/4/2022	86-90	6.1 I	43	49	4.7 I	11	9.4	2.3 U	2.3 U	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	18 U	2.3 U	4.5 U	11	3.4
SP-34	SP-34 (36-40)	4/5/2022	36-40	2.2 U	12	13	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	17 U	2.2 U	4.3 U	4.5	1.5 I
	SP-34 (46-50)	4/5/2022	46-50	2.3 U	6.1 I	7.3	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	18 U	2.3 U	4.5 U	0.45 U	0.76 I
	SP-34 (66-70)	4/5/2022	66-70	2.3 U	2.3 U	2.3	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	18 U	2.3 U	4.5 U	0.45 U	0.45 U
	SP-34 (86-90)	4/5/2022	86-90	2.1 U	5.0 I	6.1	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	4.3	1.4 I
SP-35	SP-35 (36-40)	4/6/2022	36-40	4.1 I	19	23	4.0 U	2.4 I	2.0 U	3.5 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	6.0	1.3 I
	SP-35 (46-50)	4/6/2022	46-50	2.1 U	2.1 U	2.1	4.2 U	2.1 U	2.1 U	2.2 I	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	4.8	0.85 I
	SP-35 (66-70)	4/6/2022	66-70	2.1 U	2.1 U	2.1	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	0.42 U	0.42 U
	SP-35 (78-82)	4/6/2022	78-82	2.0 U	6.6 I	7.6	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	0.41 U	0.41 U
SP-35 (78-82) DUP	4/6/2022	2.0 U		6.0 I	7.0	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	0.41 U	0.41 U	
SP-36	SP-36 (36-40)	4/6/2022	36-40	8.1 I	30	38	4.2 U	3.2 I	2.4 I	4.3 I	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	7.4 I	8.8	1.6 I
	SP-36 (46-50)	4/6/2022	46-50	2.0 U	42	43	4.4 I	9.8	7.7 I	6.4 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	11	4.8
	SP-36 (66-70)	4/7/2022	66-70	8.1 I	48	56	5.4 I	8.6	9.2	5.7 I	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	13	5.2
	SP-36 (81-85)	4/7/2022	81-85	6.5 I	48	55	4.1 I	6.2 I	7.2 I	5.0 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	13	6.2
SP-37	SP-37 (36-40)	4/7/2022	36-40	4.2 I	67	71	6.4 I	17	11	8.6	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	15	5.9
	SP-37 (46-50)	4/7/2022	46-50	2.0 U	48	49	4.1 I	6.3 I	7.0 I	4.3 I	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	8.7	6.4
	SP-37 (46-50) DUP	4/7/2022		2.0 U	49	50	4.4 I	6.1 I	7.3 I	4.1 I	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	9.1	6.1
	SP-37 (66-70)	4/7/2022	66-70	2.1 U	9.4	10	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	2.5	0.42 U

**TABLE 5: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College**

Notes:

1. Results and screening criteria are presented in nanograms per liter (ng/L).
2. ft BLS indicates feet below land surface.
3. PFOA + PFOS indicates the summation of PFOA and PFOS concentrations.
4. Blue shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection Provisional Groundwater Cleanup Target Level (GCTL).
5. -- indicates no applicable cleanup target level.
6. U indicates material was analyzed for but not detected. The reported value is the method detection limit (MDL) for the sample analyzed.
7. I indicates the reported value is between the laboratory MDL and the laboratory practical quantitation limit.
8. J indicates estimated value and/or the analysis did not meet the quality control criteria.
9. NA indicates constituent was not analyzed for.
10. PFAS indicates per- and polyfluoroalkyl substances.
11. PFCA indicates perfluoroalkyl carboxylic acids.
12. PFSA indicates perfluoroalkane sulfonic acids.
13. * indicates the analyte contains multiple perfluorinated sections.

Analyte	Acronym	Class	Carbon Chain Length
Perfluorooctanoic acid	PFOA	PFCA	8
Perfluorooctane sulfonate	PFOS	PFSA	8
Perfluorobutanoic acid	PFBA	PFCA	4
Perfluoropentanoic acid	PFPeA	PFCA	5
Perfluorohexanoic acid	PFHxA	PFCA	6
Perfluoroheptanoic acid	PFHpA	PFCA	7
Perfluorononanoic acid	PFNA	PFCA	9
Perfluorodecanoic acid	PFDA	PFCA	10
Perfluoroundecanoic acid	PFUnA	PFCA	11
Perfluorododecanoic acid	PFDoA	PFCA	12
Perfluorotridecanoic Acid	PFTriA	PFCA	13
Perfluorotetradecanoic acid	PFTeA	PFCA	14
4:2 Fluorotelomer sulfonate	4:2 FTS	PFCA Precursor	4
6:2 Fluorotelomer sulfonate	6:2 FTS	PFCA Precursor	6
8:2 Fluorotelomer sulfonate	8:2 FTS	PFCA Precursor	8
Perfluoropropanesulfonic acid	PFPrS	PFSA	3
Perfluorobutanesulfonic acid	PFBS	PFSA	4
Perfluoropentanesulfonic acid	PFPeS	PFSA	5
Perfluorohexanesulfonic acid	PFHxS	PFSA	6
Perfluoroheptanesulfonic acid	PFHpS	PFSA	7
Perfluorononanesulfonic acid	PFNS	PFSA	9
Perfluorodecanesulfonic acid	PFDS	PFSA	10
Perfluoro-1-butane sulfonamide	FBSA	PFSA Precursor	4
Perfluoro-1-hexane sulfonamide	FHxSA	PFSA Precursor	6
Perfluorooctane Sulfonamide	FOSA	PFSA Precursor	8
N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	PFSA Precursor	8
N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	PFSA Precursor	8
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	Replacement	*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	Replacement	*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	Replacement	*
Hexafluoropropylene oxide dimer acid	HFPO-DA	Replacement	*
Perfluoro-3-methoxypropanoic acid	PFMPA	Misc.	*
Perfluoro-4-methoxybutanoic acid	PFMBA	Misc.	*
Perfluoro-4-ethylcyclohexanesulfonic acid	PFECHS	Misc.	*
Perfluoro(2-ethoxyethane)sulfonic acid	PFEEESA	Misc.	*
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	Misc.	*

TABLE 6: GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Screen Interval (ft BLS)	PFOA	PFOS	PFOA+PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS		
Class				PFCA	PFSA	N/A	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	
Carbon Chain Length				8	8	N/A	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4		
Provisional GCTL (ng/L)				70	70	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DEPMW-1	DEPMW-1 (100-120')	6/14/2021	100-120	12	100	112	9.9 I	26	26	16	4.2 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	NA	13		
	DEPMW-1 (100-120)	3/29/2022		11	120	131	11 I	26	18	19	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	14	
DEPMW-2	DEPMW-2 (25-45')	6/14/2021	25-45	5.2 I	100	105	7.2 I	12	16	8.2	2.7 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	NA	15		
	DEPMW-2 (25-45)	3/29/2022		6.8 I	96	103	4.8 I	12	11	7.1 I	2.6 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	17	
DEPMW-3	DEPMW-3 (100-120')	6/14/2021	100-120	22	95	117	24	63	54	35	2.2 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	NA	13		
	DEPMW-3 (100-120)	3/29/2022		18	140	158	17	46	26	23	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	46 I	2.0 U	4.0 U	8.5	
DEPMW-4	DEPMW-4 (25-45')	6/14/2021	25-45	2.0 U	5.9 I	6.9	4.1 I	2.2 I	3.1 I	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	NA	0.85 I		
	DEPMW-4 (25-45)	3/28/2022		2.0 U	6.0 I	7.0	12 I	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	1.1 I	
DEPMW-5	DEPMW-5 (100-120')	6/14/2021	100-120	20	420	440	17	44	46	25	6.0 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	NA	22		
	DEPMW-5 (100-120)	3/29/2022		20	320	340	16	48	35	29	4.2 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.2 I	21	
DEPMW-6	DEPMW-6 (25-45')	6/14/2021	25-45	12	530	542	7.7 I	17	35	15	3.5 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	2.3 I	NA	20	
	DEPMW-6 (25-45)	3/29/2022		12	450	462	7.0 I	18	21	9.7	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	20	
	DEPMW-6 (25-45) DUP	3/29/2022		12	430	442	7.8 I	18	25	9.7	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	19	
DEPMW-7	DEPMW-7 (100-120')	6/14/2021	100-120	12	87	99	11 I	25	26	14	3.5 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	NA	15		
	DEPMW-7 (100-120)	3/29/2022		12	100	112	11 I	28	20	16	2.9 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	15	
DEPMW-8	DEPMW-8 (20-40')	6/14/2021	20-40	49	11,000	11,049	32	58	160	39	14	6.8 I	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.2 I	NA	49	
	DEPMW-8 (20-40') DUP	6/14/2021		46	12,000	12,046	33	58	160	38	13	6.4 I	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.2 I	NA	48
	DEPMW-8 (20-40)	3/29/2022		25	3,900	3,925	24	37	57	24	8.1	4.1 I	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	25	
VISAMW [M-0200]	VISAMW (M-200)	6/14/2021	30-40	5.4 I	140	145	4.0 I	6.2 I	9.3	4.0 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	NA	11		
	VISAMW (M-200)	3/29/2022		2.4 I	98	100	4.0 U	8.0 I	7.2 I	4.1 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	11	
Irrigation Well	Irrigation Well	3/23/2021	105-140	9.7	110	120	9.4 I	24	23	15	4.1 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	16		
	Irrigation Well (105-140')	3/31/2022		7.3 I	82	89	7.7 I	28	17	9.7	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	13	

TABLE 6: GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Screen Interval (ft BLS)	PFPeS	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				5	6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Provisional GCTL (ng/L)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DEPMW-1	DEPMW-1 (100-120')	6/14/2021	100-120	9.5	73	1.7 I	0.40 U	0.40 U	6.5	0.42 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	DEPMW-1 (100-120)	3/29/2022		13	79	1.3 I	0.40 U	0.40 U	11	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
DEPMW-2	DEPMW-2 (25-45')	6/14/2021	25-45	13	75	1.2 I	0.40 U	0.40 U	6.5	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	DEPMW-2 (25-45)	3/29/2022		15	77	1.1 I	0.40 U	0.40 U	7.5	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
DEPMW-3	DEPMW-3 (100-120')	6/14/2021	100-120	19	130	2.4 I	0.40 U	0.40 U	3.8	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	DEPMW-3 (100-120)	3/29/2022		13	73	1.9 I	0.40 U	0.40 U	5.8	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
DEPMW-4	DEPMW-4 (25-45')	6/14/2021	25-45	0.40 U	2.1 I	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	DEPMW-4 (25-45)	3/28/2022		0.40 U	1.7 I	0.80 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
DEPMW-5	DEPMW-5 (100-120')	6/14/2021	100-120	20	210	4.5	0.45 I	0.40 U	16	6.3	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	DEPMW-5 (100-120)	3/29/2022		22	160	3.2 I	0.40 U	0.40 U	20	7.1	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
DEPMW-6	DEPMW-6 (25-45')	6/14/2021	25-45	14	260	5.7	0.40 U	0.40 U	11	52	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	DEPMW-6 (25-45)	3/29/2022		14	210	3.7	0.40 U	0.40 U	14	62	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
	DEPMW-6 (25-45) DUP	3/29/2022		14	200	3.4	0.40 U	0.40 U	15	60	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
DEPMW-7	DEPMW-7 (100-120')	6/14/2021	100-120	10	79	1.4 I	0.40 U	0.40 U	5.6	0.53 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	DEPMW-7 (100-120)	3/29/2022		14	76	1.2 I	0.40 U	0.40 U	9.3	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
DEPMW-8	DEPMW-8 (20-40')	6/14/2021	20-40	64	1,400	58	5.6	0.40 U	89	1,800	13	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	DEPMW-8 (20-40') DUP	6/14/2021		64	1,600	57	5.5	0.40 U	76	2,000	13	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	DEPMW-8 (20-40)	3/29/2022		37	440	14	0.40 U	0.40 U	44	600	5.2	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
VISAMW [M-0200]	VISAMW (M-200)	6/14/2021	30-40	7.8	64	1.1 I	0.40 U	0.40 U	1.9	0.88 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	VISAMW (M-200)	3/29/2022		7.9	52	1.0 I	0.40 U	0.40 U	1.7 I	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	
Irrigation Well	Irrigation Well	3/23/2021	105-140	12	91	1.4 I	0.40 U	0.40 U	7.0	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA	
	Irrigation Well (105-140')	3/31/2022		8.6	60	0.80 U	0.40 U	0.40 U	8.0	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	

TABLE 6: GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Notes:

1. Results and screening criteria are presented in nanograms per liter (ng/L).
2. ft BLS indicates feet below land surface.
3. PFOA + PFOS indicates the summation of PFOA and PFOS concentrations.
4. Blue shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection Provisional Groundwater Cleanup Target Level (GCTL).
5. -- indicates no applicable cleanup target level.
6. U indicates material was analyzed for but not detected. The reported value is the method detection limit (MDL) for the sample analyzed.
7. I indicates the reported value is between the laboratory MDL and the laboratory practical quantitation limit.
8. NA indicates constituent was not analyzed for.
9. PFAS indicates per- and polyfluoroalkyl substances.
10. PFCA indicates perfluoroalkyl carboxylic acids.
11. PFSA indicates perfluoroalkane sulfonic acids.
12. * indicates the analyte contains multiple perfluorinated sections.

Analyte	Acronym	Class	Carbon Chain Length
Perfluorooctanoic acid	PFOA	PFCA	8
Perfluorooctane sulfonate	PFOS	PFSA	8
Perfluorobutanoic acid	PFBA	PFCA	4
Perfluoropentanoic acid	PFPeA	PFCA	5
Perfluorohexanoic acid	PFHxA	PFCA	6
Perfluoroheptanoic acid	PFHpA	PFCA	7
Perfluorononanoic acid	PFNA	PFCA	9
Perfluorodecanoic acid	PFDA	PFCA	10
Perfluoroundecanoic acid	PFUnA	PFCA	11
Perfluorododecanoic acid	PFDoA	PFCA	12
Perfluorotridecanoic Acid	PFTriA	PFCA	13
Perfluorotetradecanoic acid	PFTeA	PFCA	14
4:2 Fluorotelomer sulfonate	4:2 FTS	PFCA Precursor	4
6:2 Fluorotelomer sulfonate	6:2 FTS	PFCA Precursor	6
8:2 Fluorotelomer sulfonate	8:2 FTS	PFCA Precursor	8
Perfluoropropanesulfonic acid	PFPrS	PFSA	3
Perfluorobutanesulfonic acid	PFBS	PFSA	4
Perfluoropentanesulfonic acid	PFPeS	PFSA	5
Perfluorohexanesulfonic acid	PFHxS	PFSA	6
Perfluoroheptanesulfonic acid	PFHpS	PFSA	7
Perfluorononanesulfonic acid	PFNS	PFSA	9
Perfluorodecanesulfonic acid	PFDS	PFSA	10
Perfluoro-1-butane sulfonamide	FBSA	PFSA Precursor	4
Perfluoro-1-hexane sulfonamide	FHxSA	PFSA Precursor	6
Perfluorooctane Sulfonamide	FOSA	PFSA Precursor	8
N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	PFSA Precursor	8
N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	PFSA Precursor	8
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	Replacement	*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	Replacement	*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	Replacement	*
Hexafluoropropylene oxide dimer acid	HFPO-DA	Replacement	*
Perfluoro-3-methoxypropanoic acid	PFMPA	Misc.	*
Perfluoro-4-methoxybutanoic acid	PFMBA	Misc.	*
Perfluoro-4-ethylcyclohexanesulfonic acid	PFECHS	Misc.	*
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	Misc.	*
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	Misc.	*

TABLE 7: SURFACE WATER ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS
Class			PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length			8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5
Provisional Surface Water Screening Level (ng/L)			500	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW-1	SW-1	3/28/2022	4.4 I	37	12 I	29	13	7.3 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	8.9	6.4
SW-2	SW-2	3/28/2022	4.4 I	4.8 I	20	35	16	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.98 I	0.40 U
SW-3	SW-3	3/28/2022	2.4 I	3.4 I	8.8 I	18	8.0	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.86 I	0.40 U

TABLE 7: SURFACE WATER ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College

Sample Location	Field Sample ID	Sample Date	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class			PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length			6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Surface Water Screening Level (ng/L)			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW-1	SW-1	3/28/2022	39	0.80 U	0.40 U	0.40 U	4.7	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
SW-2	SW-2	3/28/2022	3.2	0.80 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
SW-3	SW-3	3/28/2022	1.4 I	0.80 U	0.40 U	0.40 U	0.86 I	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U

**TABLE 7: SURFACE WATER ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College**

Notes:

1. Results and screening criteria are presented in nanograms per liter (ng/L).
2. SW indicates surface water.
3. Blue shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection Provisional Surface Water Screening Level based on the consumption of freshwater and estuarine finfish and shellfish.
4. -- indicates no applicable cleanup target level.
5. U indicates material was analyzed for but not detected. The reported value is the method detection limit (MDL) for the sample analyzed.
6. I indicates the reported value is between the laboratory MDL and the laboratory practical quantitation limit.
7. NA or indicates constituent was not analyzed for.
8. PFAS indicates per- and polyfluoroalkyl substances.
9. PFCA indicates perfluoroalkyl carboxylic acids.
10. PFSA indicates perfluoroalkane sulfonic acids.
11. * indicates the analyte contains multiple perfluorinated sections.

Analyte	Acronym	Class	Carbon Chain Length
Perfluorooctanoic acid	PFOA	PFCA	8
Perfluorooctane sulfonate	PFOS	PFSA	8
Perfluorobutanoic acid	PFBA	PFCA	4
Perfluoropentanoic acid	PFPeA	PFCA	5
Perfluorohexanoic acid	PFHxA	PFCA	6
Perfluoroheptanoic acid	PFHpA	PFCA	7
Perfluorononanoic acid	PFNA	PFCA	9
Perfluorodecanoic acid	PFDA	PFCA	10
Perfluoroundecanoic acid	PFUnA	PFCA	11
Perfluorododecanoic acid	PFDoA	PFCA	12
Perfluorotridecanoic Acid	PFTriA	PFCA	13
Perfluorotetradecanoic acid	PFTeA	PFCA	14
4:2 Fluorotelomer sulfonate	4:2 FTS	PFCA Precursor	4
6:2 Fluorotelomer sulfonate	6:2 FTS	PFCA Precursor	6
8:2 Fluorotelomer sulfonate	8:2 FTS	PFCA Precursor	8
Perfluoropropanesulfonic acid	PFPrS	PFSA	3
Perfluorobutanesulfonic acid	PFBS	PFSA	4
Perfluoropentanesulfonic acid	PFPeS	PFSA	5
Perfluorohexanesulfonic acid	PFHxS	PFSA	6
Perfluoroheptanesulfonic acid	PFHpS	PFSA	7
Perfluorononanesulfonic acid	PFNS	PFSA	9
Perfluorodecanesulfonic acid	PFDS	PFSA	10
Perfluoro-1-butane sulfonamide	FBSA	PFSA Precursor	4
Perfluoro-1-hexane sulfonamide	FHxSA	PFSA Precursor	6
Perfluorooctane Sulfonamide	FOSA	PFSA Precursor	8
N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	PFSA Precursor	8
N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	PFSA Precursor	8
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	Replacement	*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	Replacement	*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	Replacement	*
Hexafluoropropylene oxide dimer acid	HFPO-DA	Replacement	*
Perfluoro-3-methoxypropanoic acid	PFMPA	Misc.	*
Perfluoro-4-methoxybutanoic acid	PFMBA	Misc.	*
Perfluoro-4-ethylcyclohexanesulfonic acid	PFECHS	Misc.	*
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	Misc.	*
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	Misc.	*

**TABLE 8: SEDIMENT ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College**

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPoS	PFBS	PFPeS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5
Sed-1	Sed-1 (0-1)	3/28/2022	0-1	0.31 U	0.31 U	0.63 U	0.31 U	0.31 U	0.31 U	0.31 U	0.63 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	2.5 U	0.31 U	0.31 U	0.16 U	0.16 U
Sed-2	Sed-2 (0-1)	3/28/2022	0-1	0.37 U	2.9	0.73 U	0.37 U	0.37 U	0.37 U	0.37 U	0.73 U	0.53 I	0.37 U	0.37 U	0.37 U	0.37 U	2.9 U	0.37 U	0.37 U	0.18 U	0.18 U
Sed-3	Sed-3 (0-1)	3/28/2022	0-1	0.63 U	12	1.3 U	0.63 U	0.63 U	0.63 U	0.63 U	1.3 U	2.4 I	0.63 U	1.9 I	0.63 U	0.63 U	5.1 U	0.63 U	0.63 U	0.32 U	0.32 U

**TABLE 8: SEDIMENT ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College**

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replcement	Replacement	Replacement	Replacement	Misc	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	*
Sed-1	Sed-1 (0-1)	3/28/2022	0-1	0.16 U	0.16 U	0.16 U	0.37 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.31 U	0.31 U	0.63 U	0.31 U	0.31 U	0.31 U	0.31 U	1.3 U	
Sed-2	Sed-2 (0-1)	3/28/2022	0-1	0.18 U	0.18 U	0.18 U	0.85	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.37 U	0.37 U	0.73 U	0.37 U	0.37 U	0.37 U	0.37 U	1.5 U	
Sed-3	Sed-3 (0-1)	3/28/2022	0-1	0.32 U	0.32 U	0.32 U	2.0	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.63 U	0.63 U	1.3 U	0.63 U	0.63 U	0.63 U	0.63 U	2.5 U	

**TABLE 8: SEDIMENT ANALYTICAL RESULTS FOR PFAS
Former Florida State Fire College**

Notes:

1. Results are presented in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
2. Provisional cleanup target levels have not been established for sediment.
3. ft BLS indicates feet below land surface.
4. Sed indicates sediment.
5. U indicates that the compound was analyzed for but not detected (the laboratory method detection limit (MDL) is shown).
6. I indicates the result is between the laboratory MDL and the practical quantitation limit.
7. NA indicates constituent was not analyzed for.
8. PFAS indicates per- and polyfluoroalkyl substances.
9. PFCA indicates perfluoroalkyl carboxylic acids.
10. PFSA indicates perfluoroalkane sulfonic acids.
11. * indicates the analyte contains multiple perfluorinated sections.

Analyte	Acronym	Class	Carbon Chain Length
Perfluorooctanoic acid	PFOA	PFCA	8
Perfluorooctane sulfonate	PFOS	PFSA	8
Perfluorobutanoic acid	PFBA	PFCA	4
Perfluoropentanoic acid	PFPeA	PFCA	5
Perfluorohexanoic acid	PFHxA	PFCA	6
Perfluoroheptanoic acid	PFHpA	PFCA	7
Perfluorononanoic acid	PFNA	PFCA	9
Perfluorodecanoic acid	PFDA	PFCA	10
Perfluoroundecanoic acid	PFUnA	PFCA	11
Perfluorododecanoic acid	PFDoA	PFCA	12
Perfluorotridecanoic Acid	PFTriA	PFCA	13
Perfluorotetradecanoic acid	PFTeA	PFCA	14
4:2 Fluorotelomer sulfonate	4:2 FTS	PFCA Precursor	4
6:2 Fluorotelomer sulfonate	6:2 FTS	PFCA Precursor	6
8:2 Fluorotelomer sulfonate	8:2 FTS	PFCA Precursor	8
Perfluoropropanesulfonic acid	PFPrS	PFSA	3
Perfluorobutanesulfonic acid	PFBS	PFSA	4
Perfluoropentanesulfonic acid	PFPeS	PFSA	5
Perfluorohexanesulfonic acid	PFHxS	PFSA	6
Perfluoroheptanesulfonic acid	PFHpS	PFSA	7
Perfluorononanesulfonic acid	PFNS	PFSA	9
Perfluorodecanesulfonic acid	PFDS	PFSA	10
Perfluoro-1-butane sulfonamide	FBSA	PFSA Precursor	4
Perfluoro-1-hexane sulfonamide	FHxSA	PFSA Precursor	6
Perfluorooctane Sulfonamide	FOSA	PFSA Precursor	8
N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	PFSA Precursor	8
N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	PFSA Precursor	8
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	Replacement	*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	Replacement	*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	Replacement	*
Hexafluoropropylene oxide dimer acid	HFPO-DA	Replacement	*
Perfluoro-3-methoxypropanoic acid	PFMPA	Misc.	*
Perfluoro-4-methoxybutanoic acid	PFMBA	Misc.	*
Perfluoro-4-ethylcyclohexanesulfonic acid	PFECHS	Misc.	*
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	Misc.	*
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	Misc.	*

FIGURES

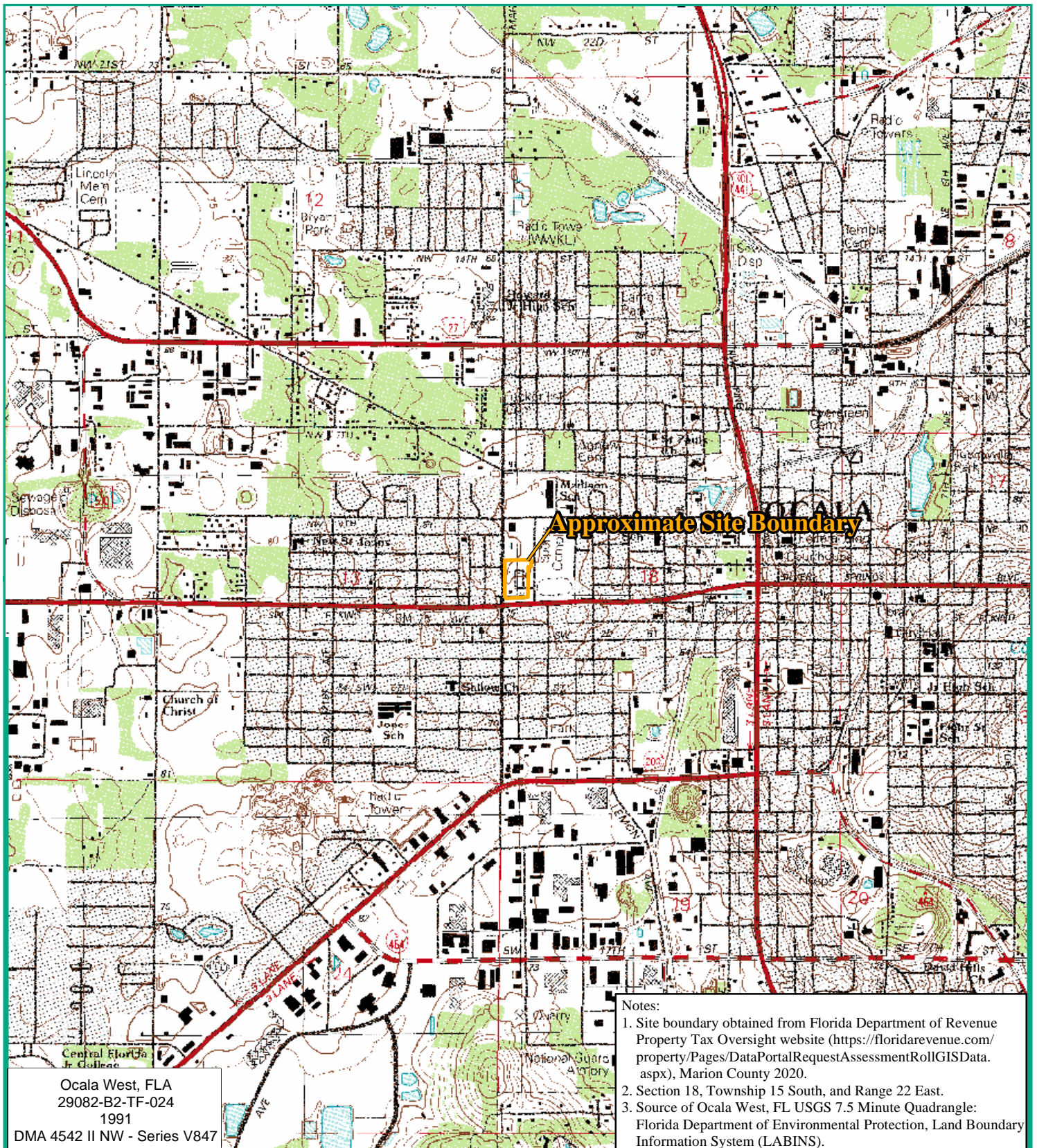


Figure 1
USGS Site Topographic Map
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida



Date: May 24, 2022



2,000

Feet





Figure 2
Site Vicinity
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

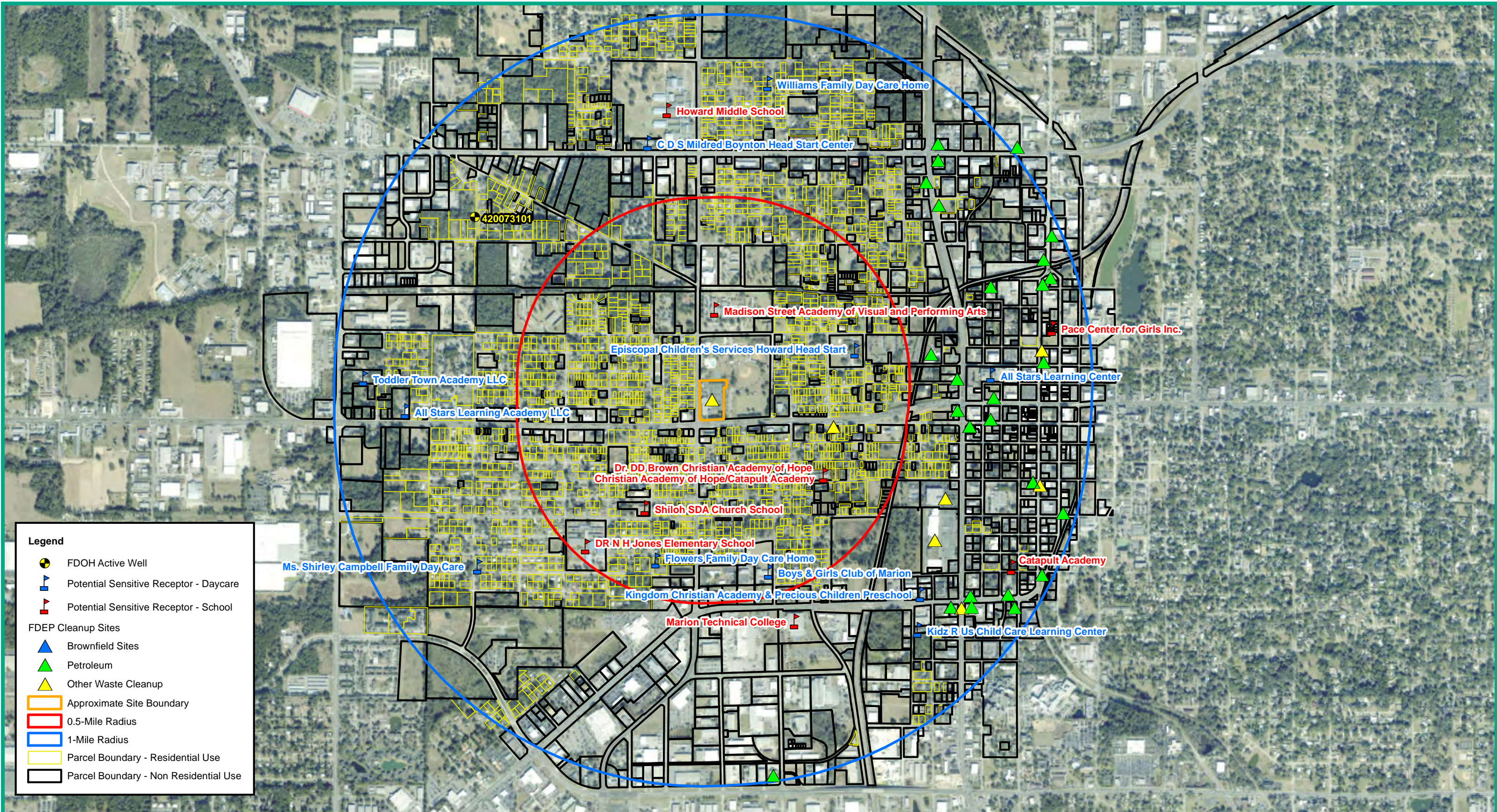
Notes:
 1. Site and parcel boundaries obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 2. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



160
 Feet



Date: May 24, 2022





Legend	
	WMS VISA Monitoring Well Location screened from 30 to 40 ft BLS
	Historic Drainage Feature
	Historic Site Feature
	Approximate Site Boundary

Figure 4
Site Location Map
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. ft BLS indicates feet below land surface.
 2. Historic site features provided by Florida Department of Environmental Protection (FDEP).
 3. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 4. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.

Date: May 24, 2022



50 Feet



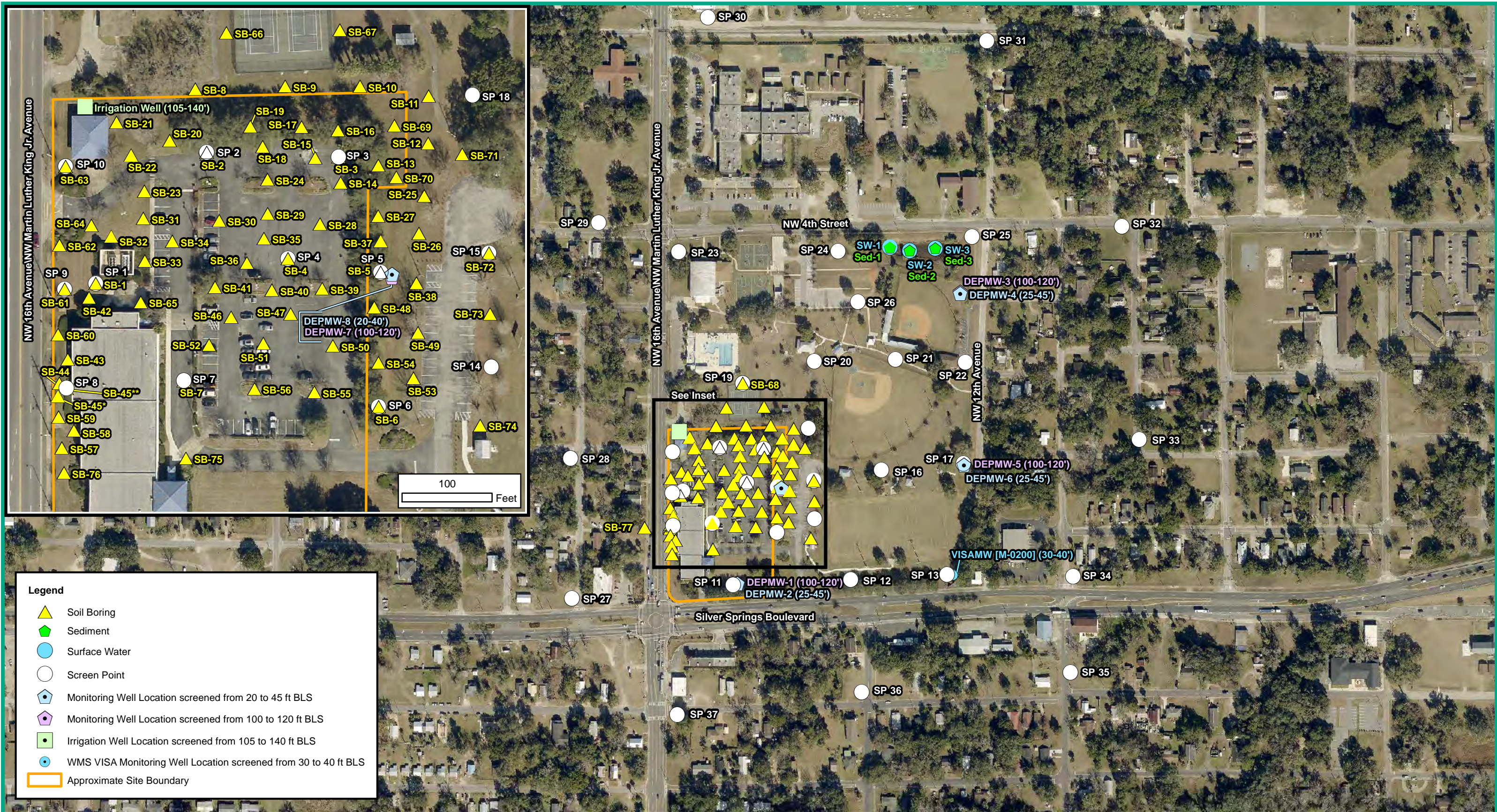
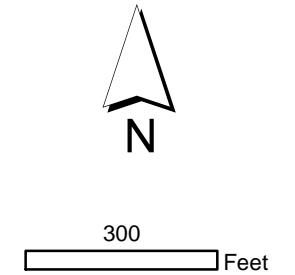


Figure 5
Sampling Locations
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. ft BLS indicates feet below land surface.
 2. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
 3. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
 4. Site and parcel boundaries obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 5. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



Date: May 24, 2022

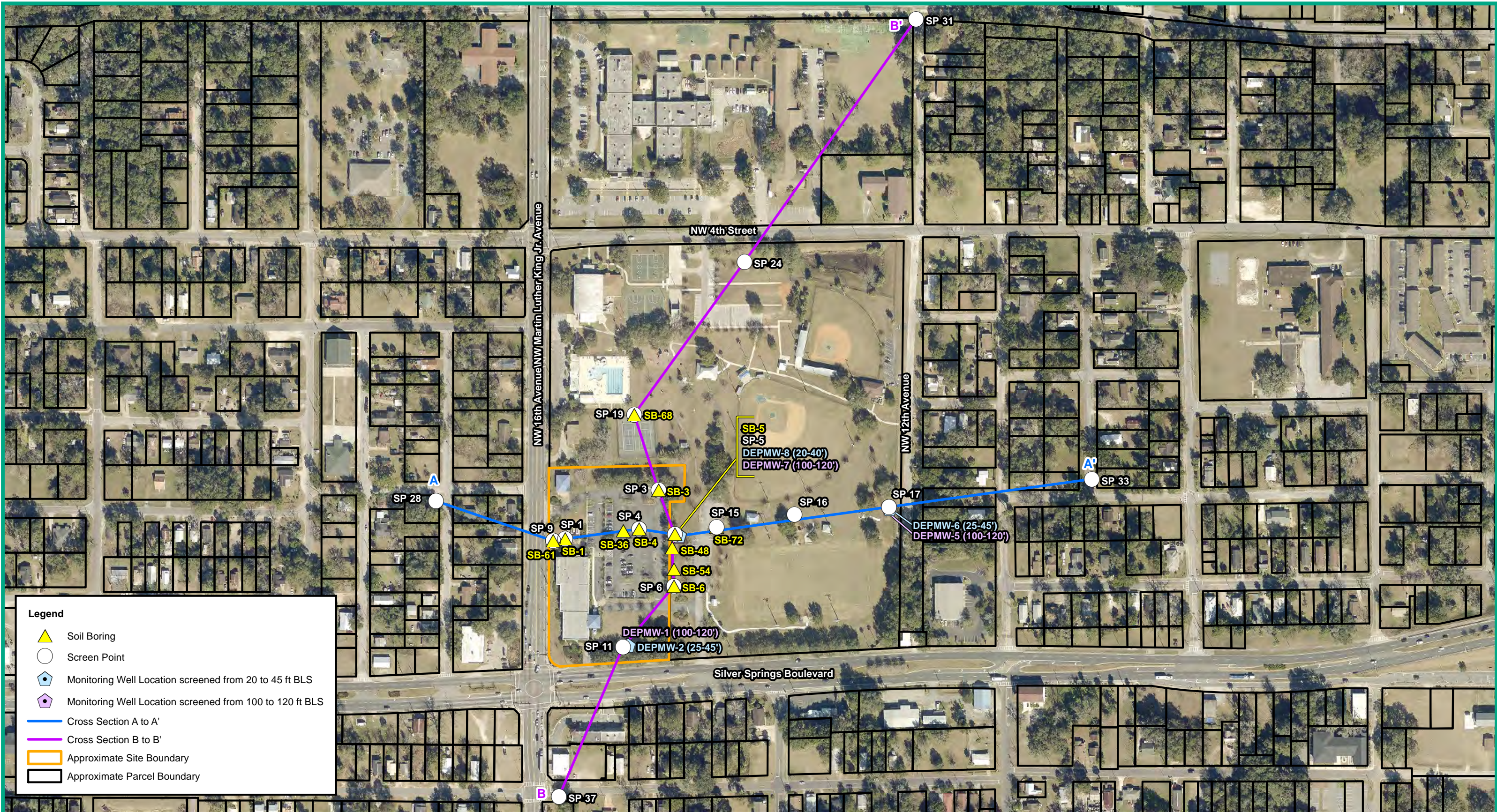
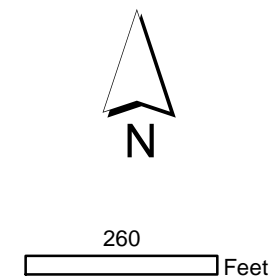
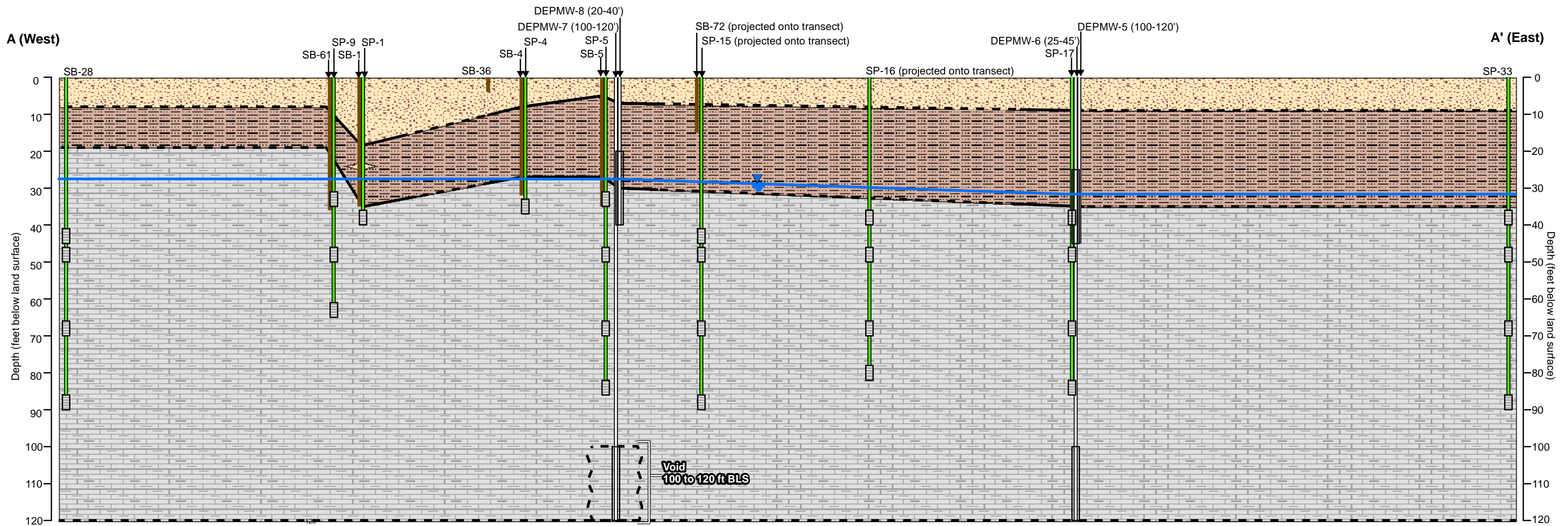


Figure 6
Cross Section Transects Layout
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Date: June 14, 2022





Legend

- Approximate Water
- Inferred Lithology

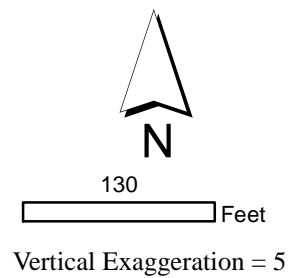
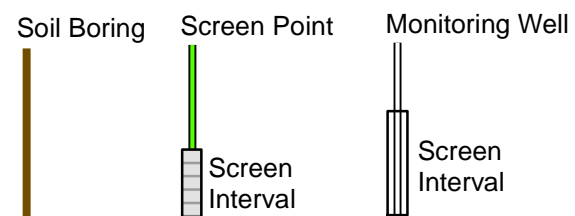
Lithology

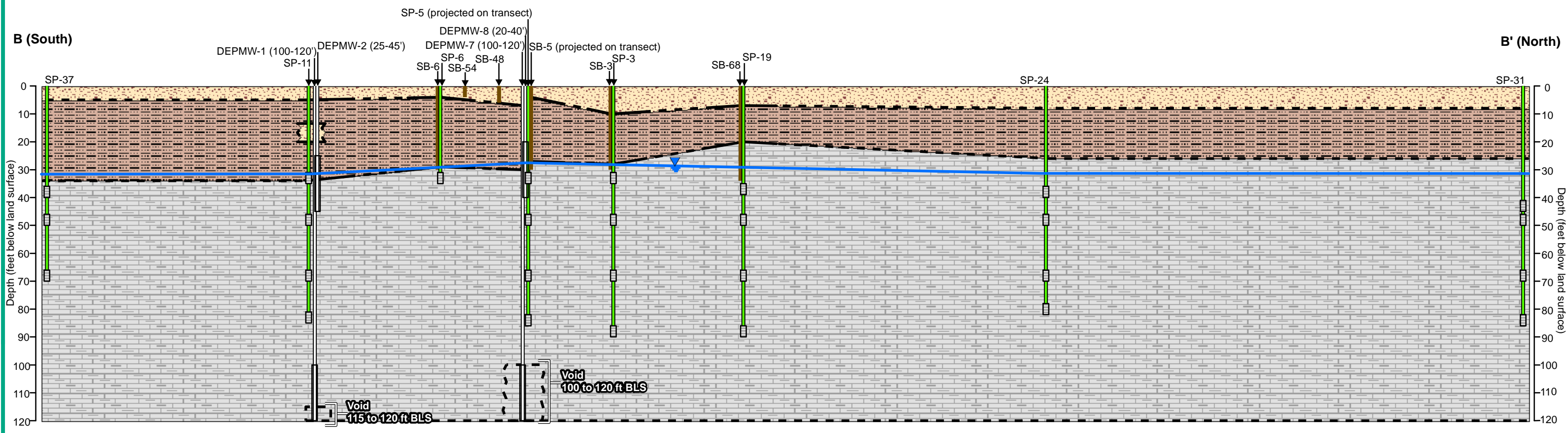
- SAND with Silt/Clay
- Interbedded Sandy CLAY and Clayey SAND with locally present chert
- LIMESTONE

Figure 7
Cross Section A-A'
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Note:
 Cross section transect presented on Figure 6.

Date: June 14, 2022





Legend

- Approximate Water Table
- Inferred Lithology

Lithology

- SAND with Silt/Clay Nodules
- Interbedded Sandy CLAY and Clayey SAND with locally present chert
- LIMESTONE

Figure 8
Cross Section B-B'
 Former Florida State Fire College
 1501 West Silver Springs Boulevard
 Ocala, Marion County, Florida

Note:
 Cross section transect presented on Figure 6.

Date: June 15, 2022

Soil Boring Screen Point Monitoring Well

Screen Interval Screen Interval

Vertical Exaggeration = 5





Figure 9
Groundwater Elevation Contour Map from 20 to 45 ft BLS - 28 March 2022
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

- Notes:**
1. NAVD88 indicates North American Vertical Datum of 1988
 2. ft BLS indicates feet below land surface.
 3. Site and parcel boundaries obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 4. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



160 Feet



Date: June 07, 2022



Legend

- Monitoring Well Location screened from 100 to 120 ft BLS
- Irrigation Well Location screened from 105 to 140 ft BLS
- Groundwater Flow Direction
- Groundwater Elevation Contour (dashed where inferred)
- Approximate Site Boundary
- Approximate Parcel Boundary
- Groundwater Elevation (feet NAVD88)

Figure 10
Groundwater Elevation Contour Map from 100 to 120 ft BLS - 28 March 2022
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:

1. NAVD88 indicates North American Vertical Datum of 1988
2. ft BLS indicates feet below land surface.
3. NM indicates not measured.
4. Site and parcel boundaries obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
5. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



160 Feet



Date: June 07, 2022

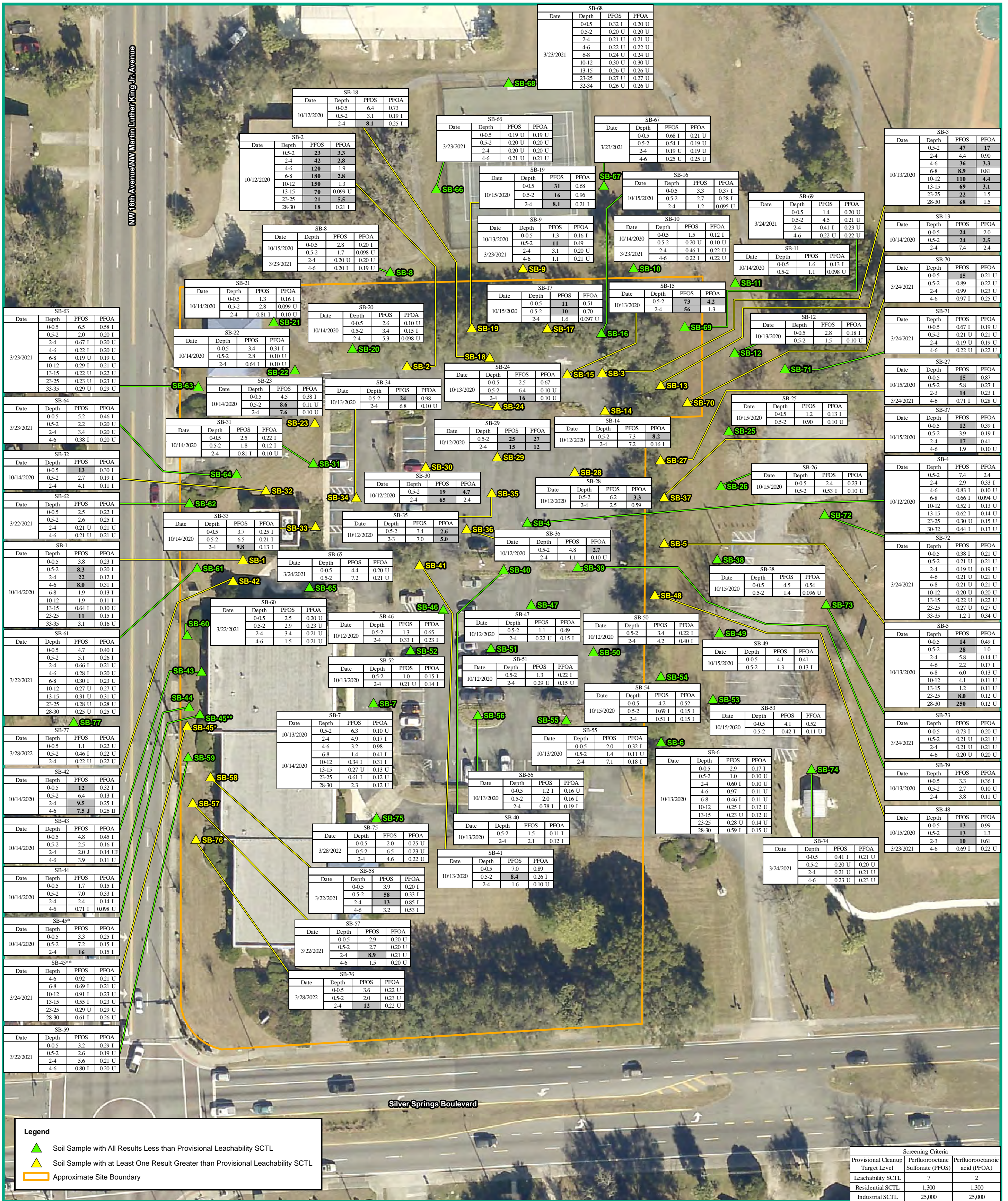


Figure 11
Summary of Analytical Results in Soil
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Date: May 24, 2022

60 Feet



Legend

Summary of PFOS in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- PFOS Greater than the FDEP Provisional Leachability SCTL Isocontour
- Approximate Site Boundary

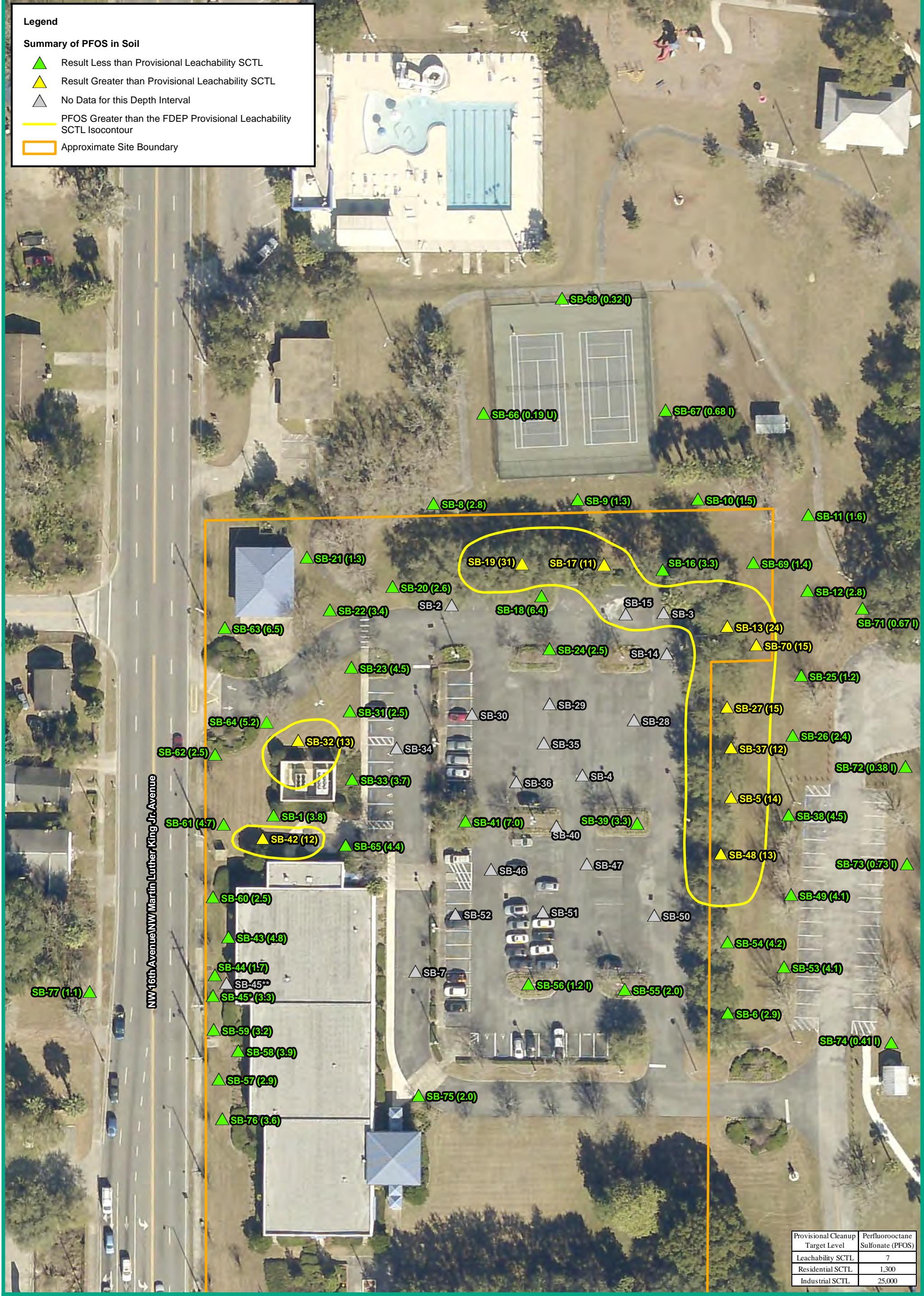
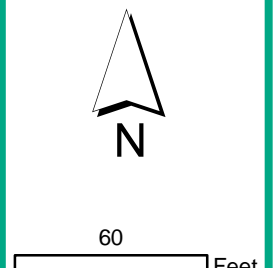


Figure 12
Summary of PFOS in Soil from 0 to 0.5 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:

1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
4. SCTL indicates soil cleanup target level.
5. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
6. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
7. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
8. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



Date: June 28, 2022

Legend

Summary of PFOS in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- PFOS Greater than the FDEP Provisional Leachability SCTL Isocontour
- Approximate Site Boundary

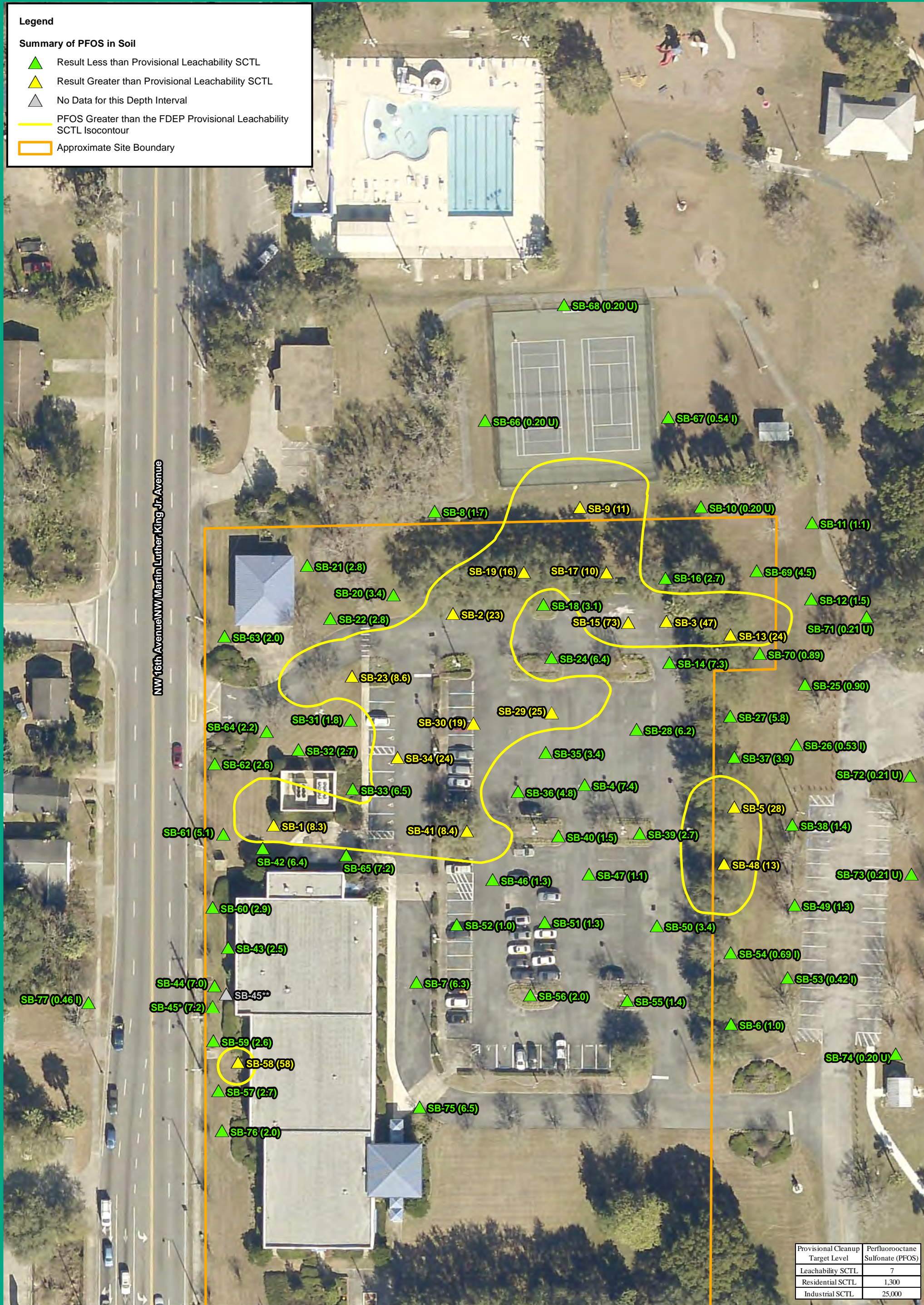


Figure 13
Summary of PFOS in Soil from
0.5 to 2 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
 2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
 3. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
 4. SCTL indicates soil cleanup target level.
 5. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
 6. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
 7. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 8. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



60

Feet

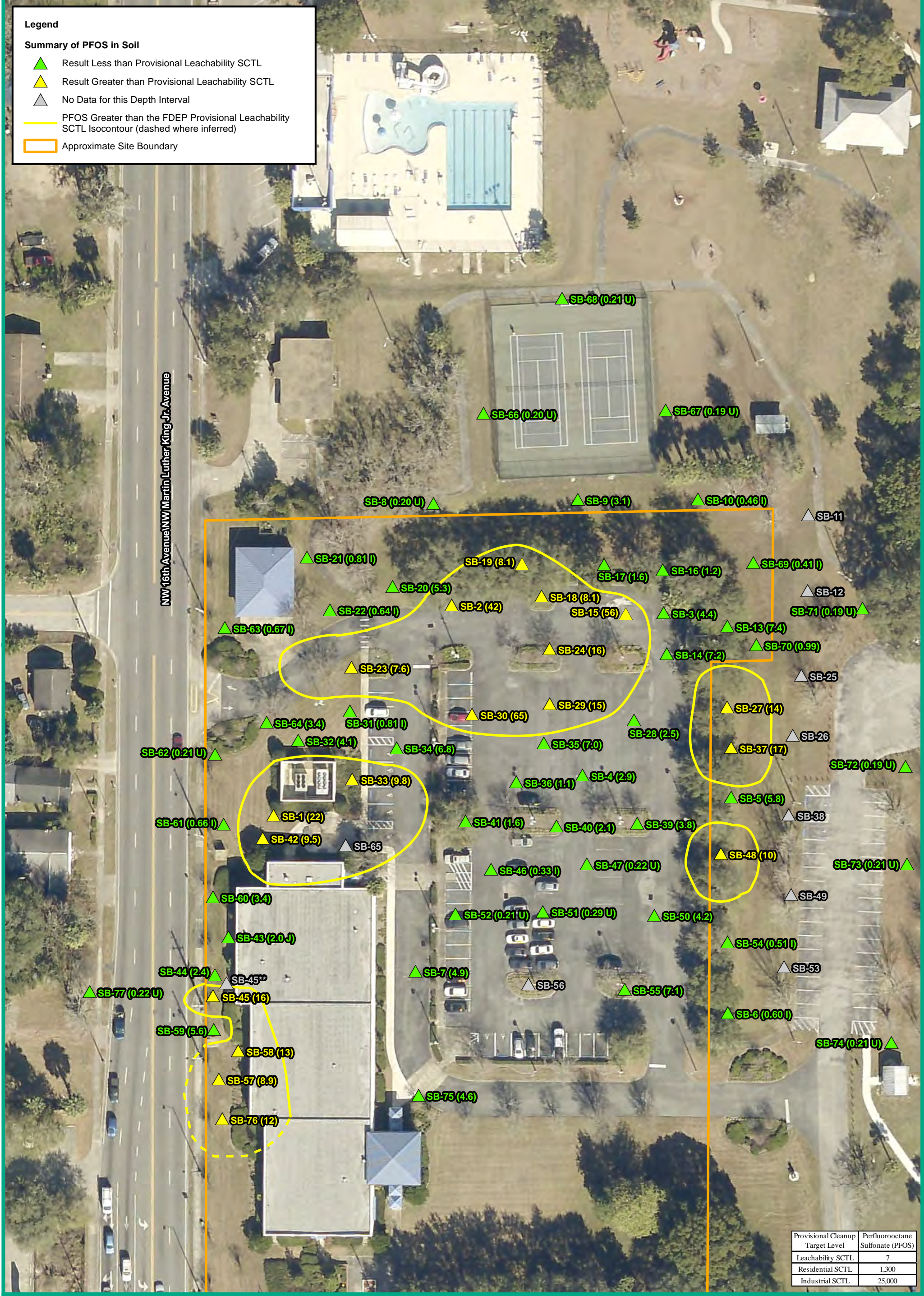


Date: June 28, 2022

Legend

Summary of PFOS in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- PFOS Greater than the FDEP Provisional Leachability SCTL Isocontour (dashed where inferred)
- Approximate Site Boundary



Provisional Cleanup Target Level	Perfluorooctane Sulfonate (PFOS)
Leachability SCTL	7
Residential SCTL	1,300
Industrial SCTL	25,000

Figure 14
Summary of PFOS in Soil from 2 to 4 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:

1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. J indicates estimated value and/or the analysis did not meet established quality control criteria.
4. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
5. SCTL indicates soil cleanup target level.
6. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
7. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
8. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
9. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.

60 Feet



Date: June 28, 2022

Legend

Summary of PFOS in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- PFOS Greater than the FDEP Provisional Leachability SCTL Isocontour
- Approximate Site Boundary

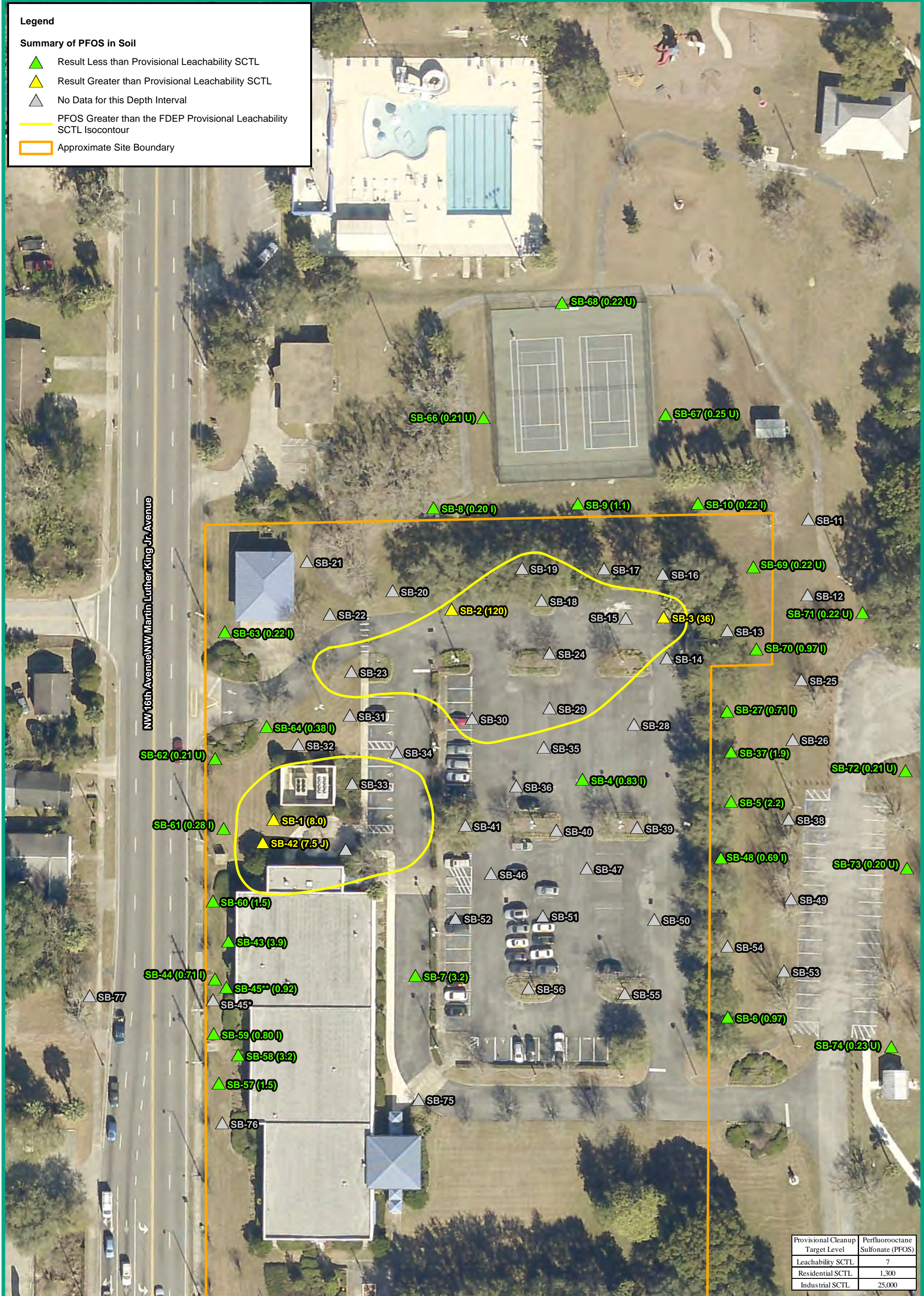


Figure 15
Summary of PFOS in Soil from
4 to 6 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:

1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. J indicates estimated value and/or the analysis did not meet established quality control criteria.
4. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
5. SCTL indicates soil cleanup target level.
6. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
7. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
8. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
9. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



60

Feet



Date: June 28, 2022

Legend

Summary of PFOS in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Results Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- Approximate Site Boundary



Figure 16
Summary of PFOS in Soil from 6 to 15 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:

1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
4. SCTL indicates soil cleanup target level.
5. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
6. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
7. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
8. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.

North Arrow

60 Feet



Date: May 24, 2022

Legend

Summary of PFOS in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- Approximate Site Boundary



Provisional Cleanup Target Level	Perfluorooctane Sulfonate (PFOS)
Leachability SCTL	7
Residential SCTL	1,300
Industrial SCTL	25,000

Figure 17
Summary of PFOS in Soil from 16 to 35 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
 2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
 3. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
 4. SCTL indicates soil cleanup target level.
 5. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
 6. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
 7. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 8. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



60 Feet



Date: May 24, 2022

Legend

Summary of PFOA in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- Approximate Site Boundary

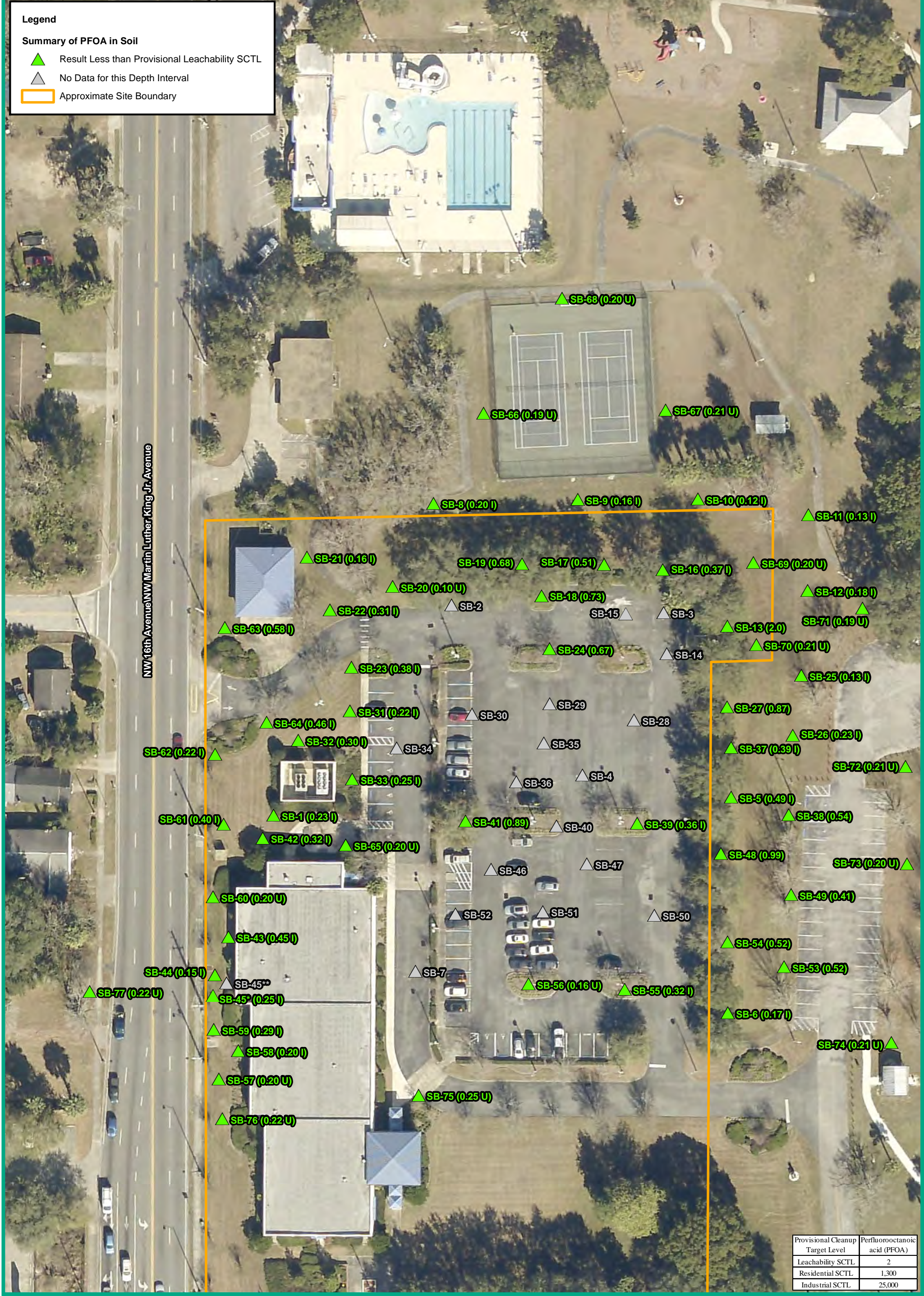
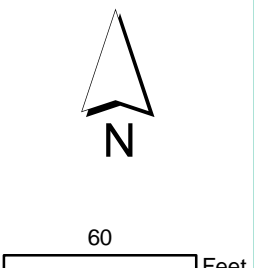


Figure 18
Summary of PFOA in Soil from 0 to 0.5 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:

1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
4. SCTL indicates soil cleanup target level.
5. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
6. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
7. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
8. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



Date: May 24, 2022

Legend

Summary of PFOA in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- PFOA Greater than the FDEP Provisional Leachability SCTL Isocontour
- Approximate Site Boundary



Provisional Cleanup Target Level	Perfluorooctanoic acid (PFOA)
Leachability SCTL	2
Residential SCTL	1,300
Industrial SCTL	25,000

Figure 19
Summary of PFOA in Soil from 0.5 to 2 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
 2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
 3. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
 4. SCTL indicates soil cleanup target level.
 5. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
 6. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
 7. *** indicates not used to generate contour.
 8. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 9. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



60 Feet

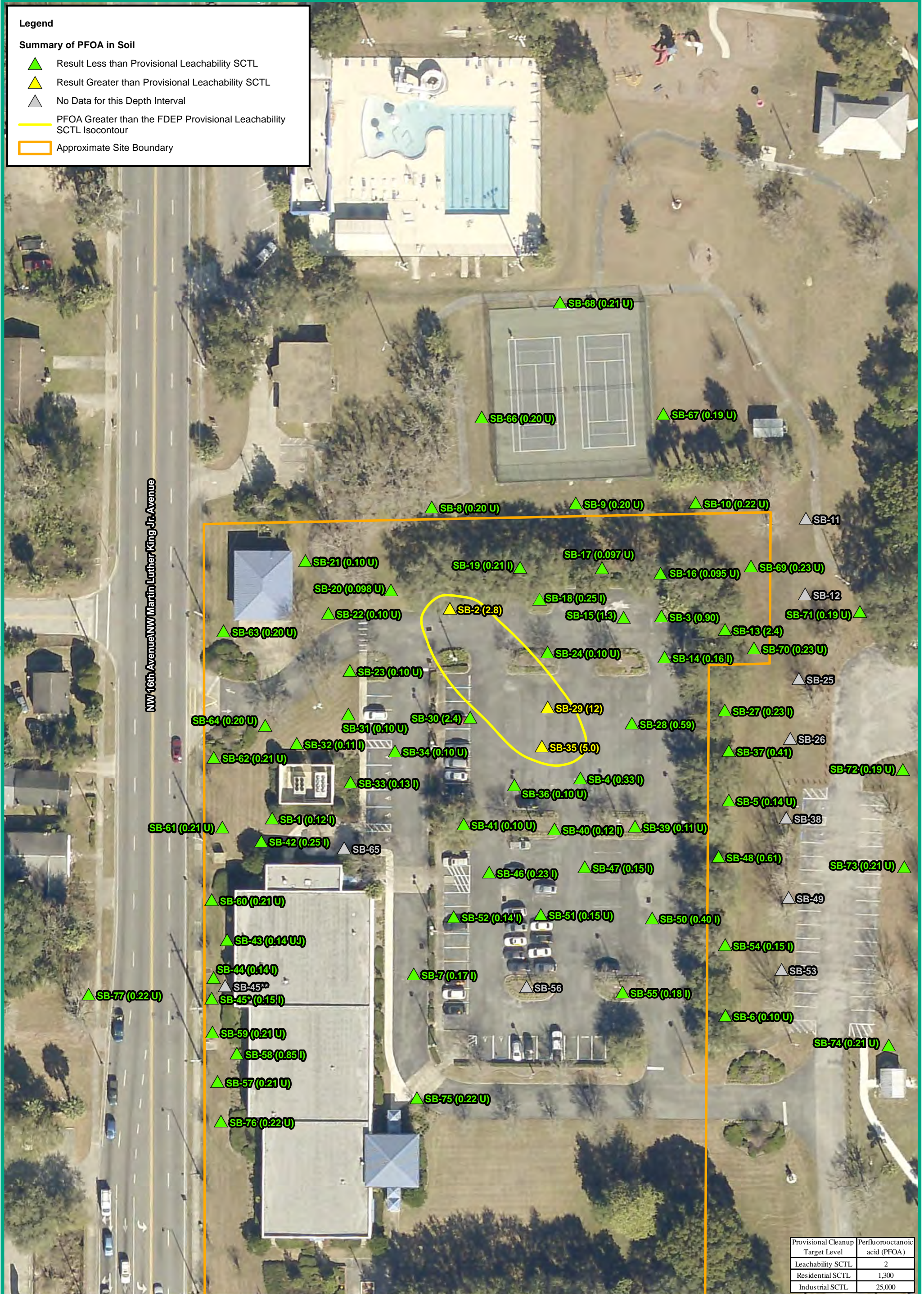


Date: May 24, 2022

Legend

Summary of PFOA in Soil

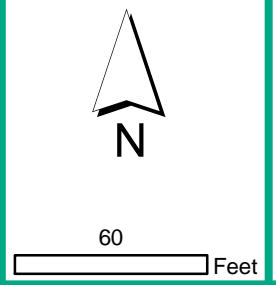
- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- PFOA Greater than the FDEP Provisional Leachability SCTL Isocontour
- Approximate Site Boundary



Provisional Cleanup Target Level	Perfluorooctanoic acid (PFOA)
Leachability SCTL	2
Residential SCTL	1,300
Industrial SCTL	25,000

Figure 20
Summary of PFOA in Soil from 2 to 4 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
 2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
 3. J indicates estimated value and/or the analysis did not meet established quality control criteria.
 4. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
 5. SCTL indicates soil cleanup target level.
 6. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
 7. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
 8. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 9. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.

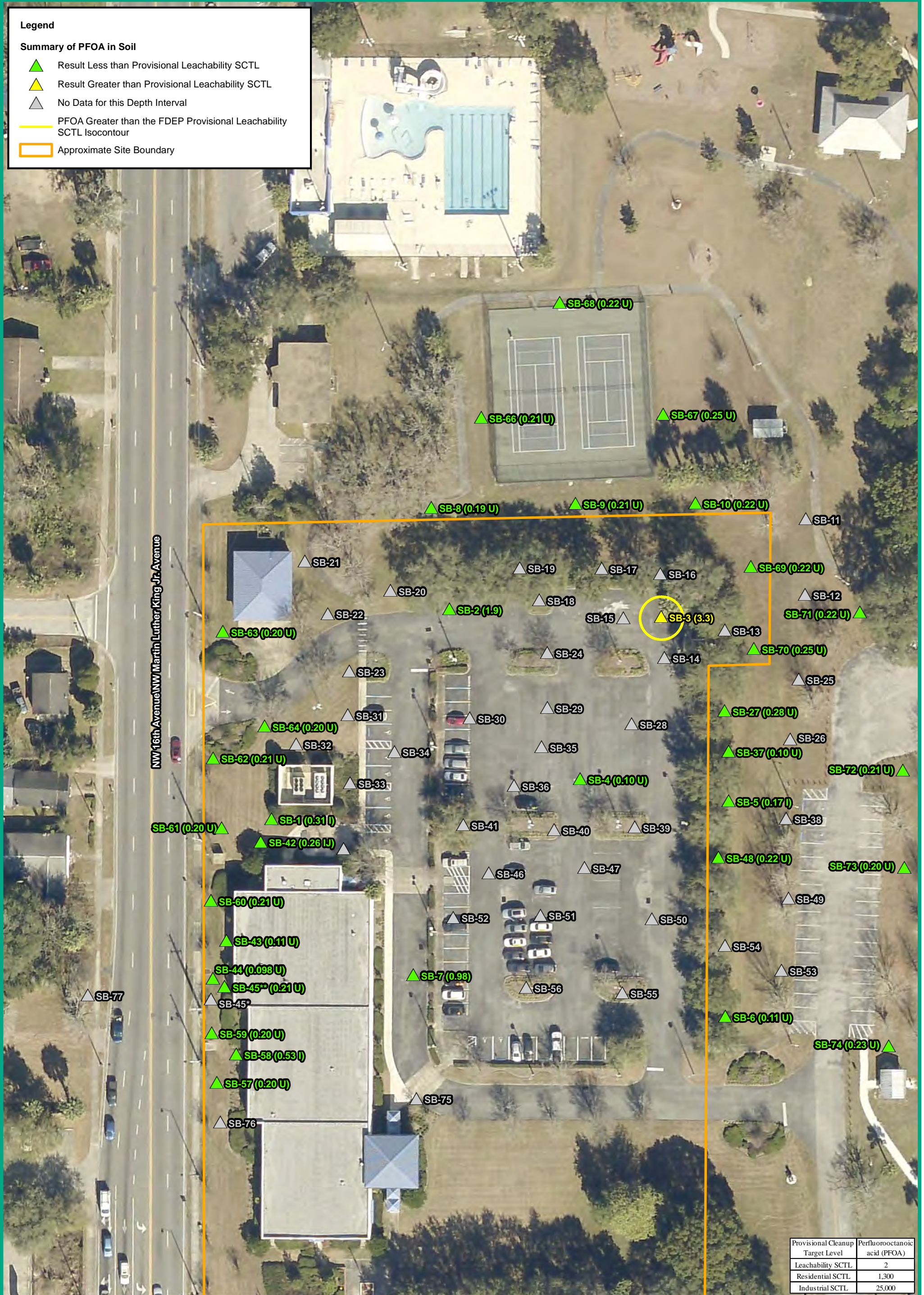


Date: May 24, 2022

Legend

Summary of PFOA in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- PFOA Greater than the FDEP Provisional Leachability SCTL Isocontour
- Approximate Site Boundary



Provisional Cleanup Target Level	Perfluorooctanoic acid (PFOA)
Leachability SCTL	2
Residential SCTL	1,300
Industrial SCTL	25,000

Figure 21
Summary of PFOA in Soil from 4 to 6 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
 2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
 3. J indicates estimated value and/or the analysis did not meet established quality control criteria.
 4. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
 5. SCTL indicates soil cleanup target level.
 6. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
 7. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
 8. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 9. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



60 Feet



Date: May 24, 2022

Legend

Summary of PFOA in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- Approximate Site Boundary



Figure 22
Summary of PFOA in Soil from
6 to 15 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
 2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
 3. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
 4. SCTL indicates soil cleanup target level.
 5. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
 6. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
 7. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 8. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



60 Feet



Date: May 24, 2022

Legend

Summary of PFOA in Soil

- ▲ Result Less than Provisional Leachability SCTL
- ▲ Result Greater than Provisional Leachability SCTL
- ▲ No Data for this Depth Interval
- Approximate Site Boundary



Provisional Cleanup Target Level	Perfluorooctanoic acid (PFOA)
Leachability SCTL	2
Residential SCTL	1,300
Industrial SCTL	25,000

Figure 23
Summary of PFOA in Soil from
16 to 35 ft BLS
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
 2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
 3. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
 4. SCTL indicates soil cleanup target level.
 5. * indicates SB-45 hand auger samples collected from 0 to 4 feet (ft) below land surface (BLS).
 6. ** indicates SB-45 Direct Push Technology samples collected from depths greater than 4 ft BLS.
 7. Site boundary obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 8. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



60 Feet



Date: May 24, 2022

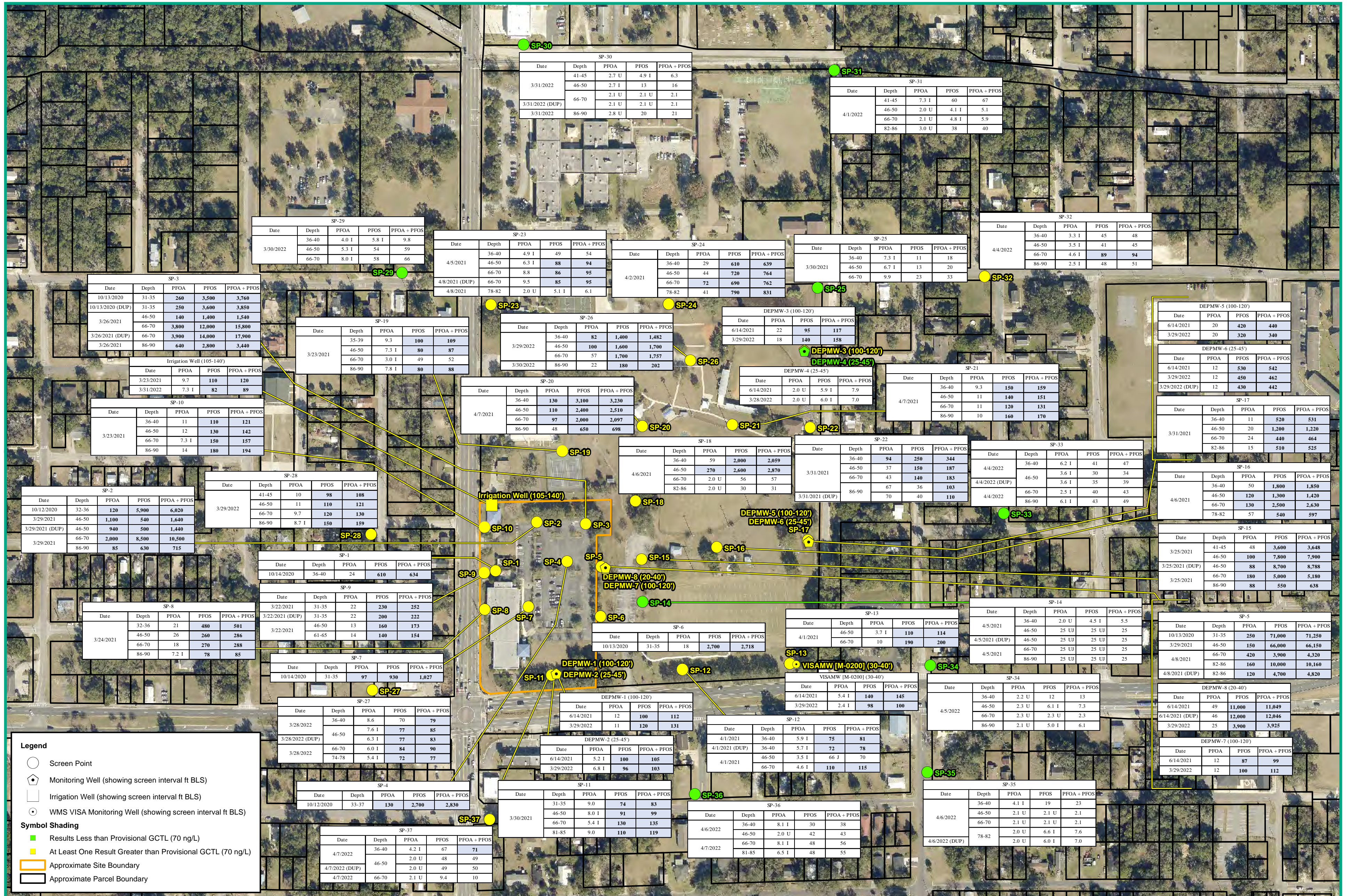
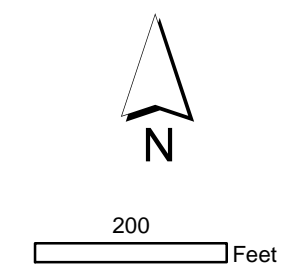


Figure 24
Summary of Analytical Results in Groundwater
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:
 1. Results and screening criteria are presented in nanograms per liter (ng/L).
 2. Depth is presented in feet below land surface (ft BLS).
 3. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
 4. J indicates estimated value and/or the analysis did not meet established quality control criteria.
 5. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
 6. PFOA + PFOS indicates the summation of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS).
 7. Blue shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection provisional groundwater cleanup target level (GCTL) of 70 ng/L.
 8. Site and parcel boundaries obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 9. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.

Date: June 07, 2022



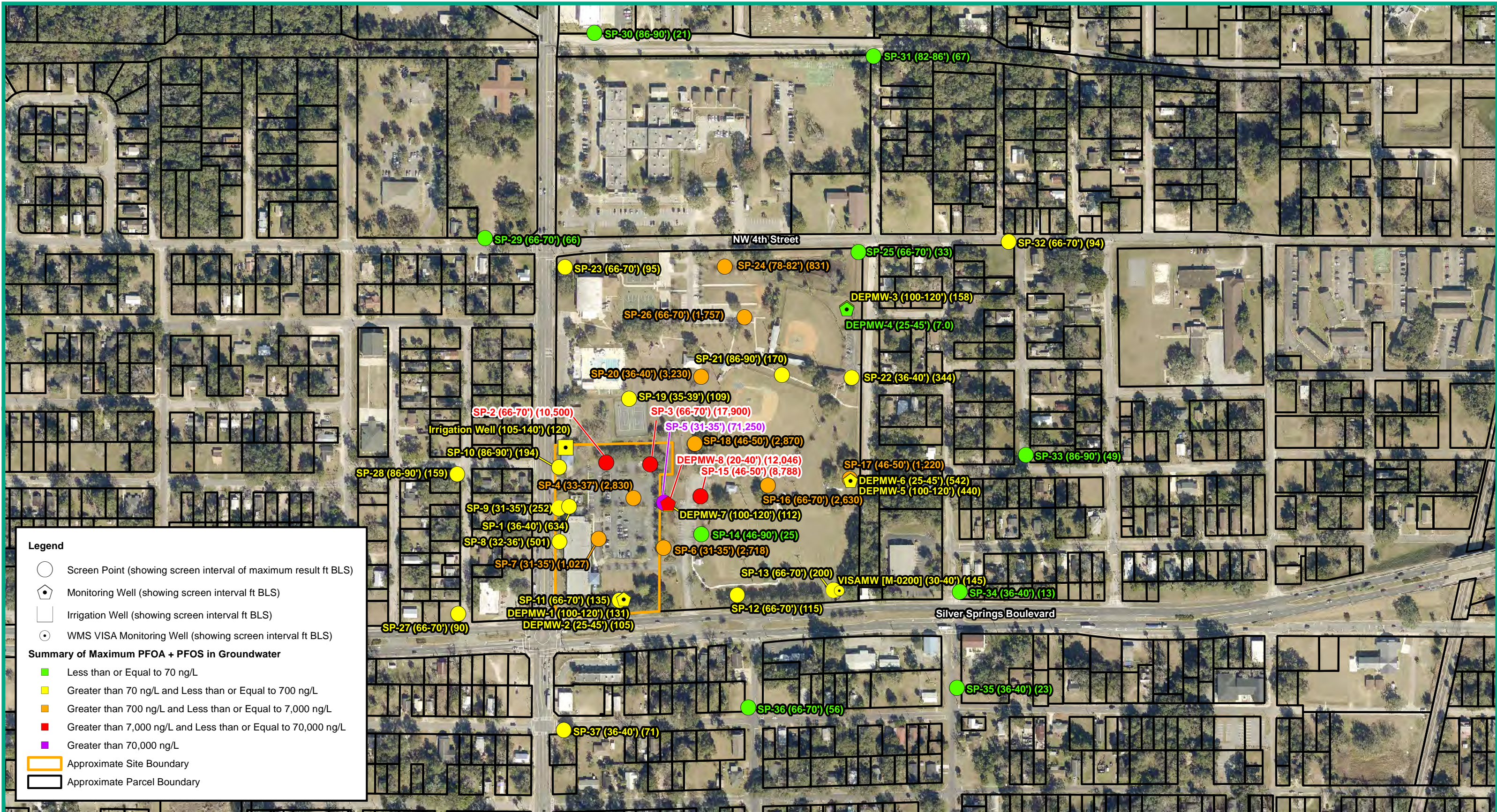
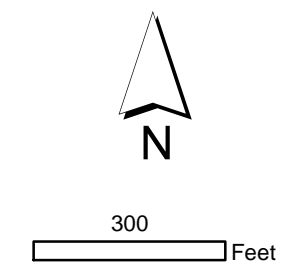


Figure 25
Summary of Maximum Concentrations
of PFOA +PFOS in Groundwater
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

- Notes:**
1. Results and screening criteria are presented in nanograms per liter (ng/L).
 2. Depth (') is presented in feet below land surface (ft BLS).
 3. PFOA + PFOS indicates the summation of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS).
 4. Screening based on the Florida Department of Environmental Protection provisional groundwater cleanup target level (GCTL) of 70 ng/L.
 5. Site and parcel boundaries obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
 6. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



Date: June 06, 2022

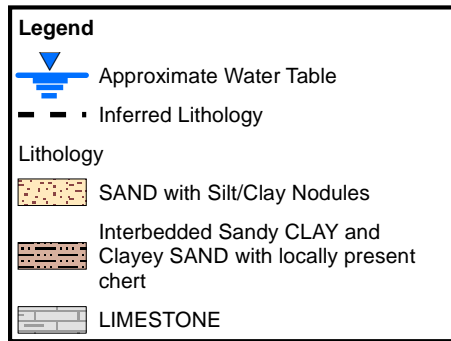
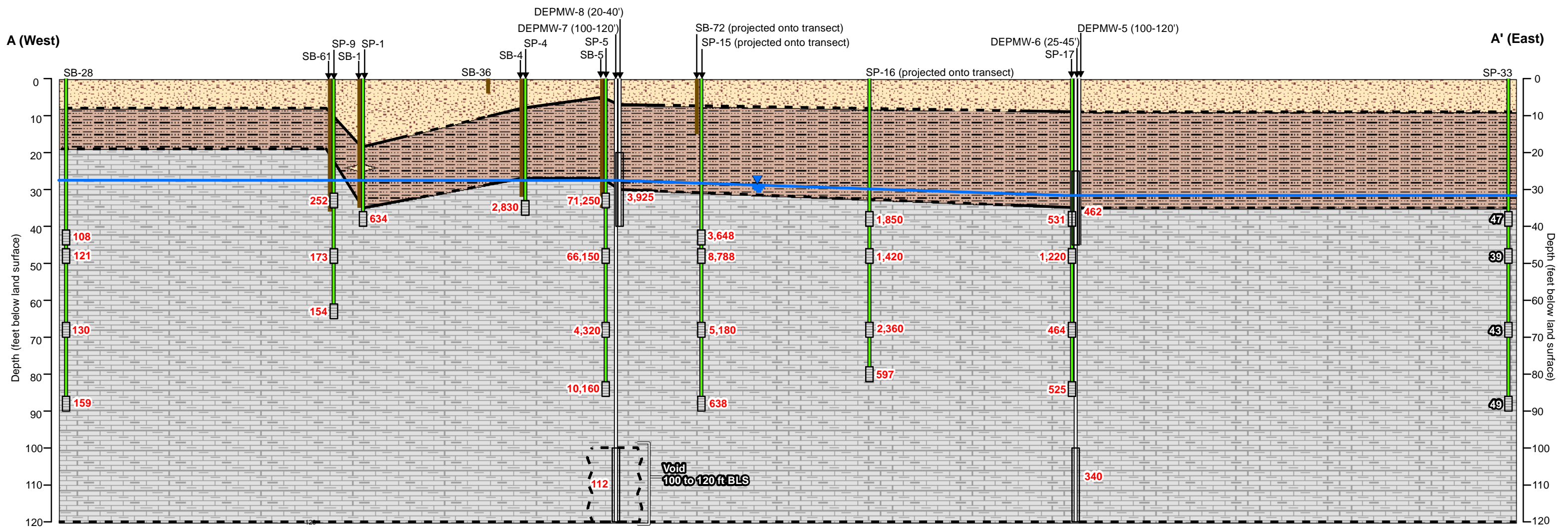
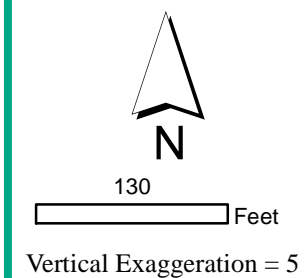
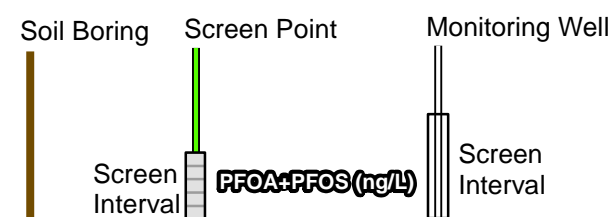


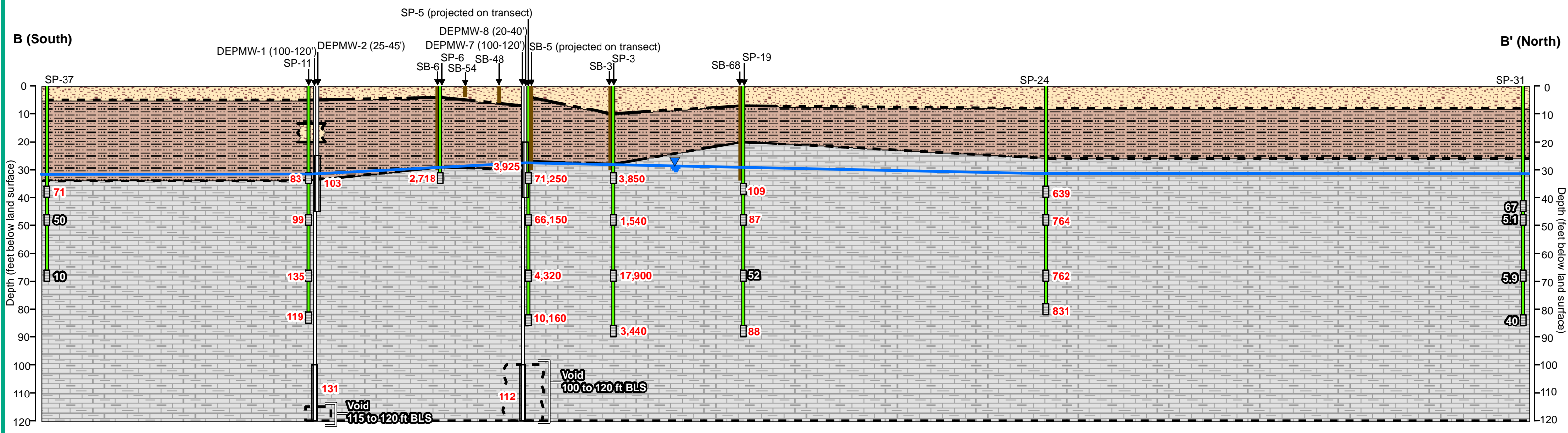
Figure 26
Vertical Profile of PFOA and PFOS in Groundwater from A-A'
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:

1. Results are provided in nanograms per liter (ng/L).
2. ft BLS indicates feet below land surface.
3. Analytical results are shown for the summation of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS).
4. Refer to Figure 6 for the plan view of the cross-section transects layout.
5. The Florida Department of Environmental Protection provisional groundwater cleanup target level (GCTL) for the summation of PFOA and PFOS is 70 ng/L.
6. Contours were generated using the summation concentration of PFOA + PFOS. The highest concentration between a sample and its duplicate was utilized.
7. Red text indicates result is greater than the PFOA+PFOS GCTL.

Date: June 28, 2022





Legend

- Approximate Water Table
- Inferred Lithology

Lithology

- SAND with Silt/Clay Nodules
- Interbedded Sandy CLAY and Clayey SAND with locally present chert
- LIMESTONE

Figure 27
Vertical Profile of PFOA and PFOS in Groundwater from B-B'
Former Florida State Fire College
1501 West Silver Springs Boulevard
Ocala, Marion County, Florida

Notes:

- Results are provided in nanograms per liter (ng/L).
- ft BLS indicates feet below land surface.
- Analytical results are shown for the summation of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS).
- Refer to Figure 6 for the plan view of the cross-section transects layout.
- The Florida Department of Environmental Protection provisional groundwater cleanup target level (GCTL) for the summation of PFOA and PFOS is 70 ng/L.
- Contours were generated using the summation concentration of PFOA + PFOS. The highest concentration between a sample and its duplicate was utilized.
- Red text indicates result is greater than the PFOA+PFOS GCTL.

Date: June 28, 2022

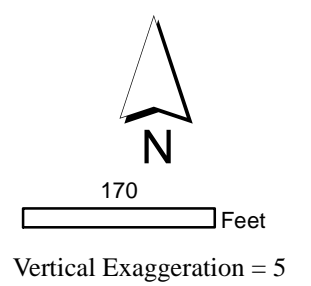
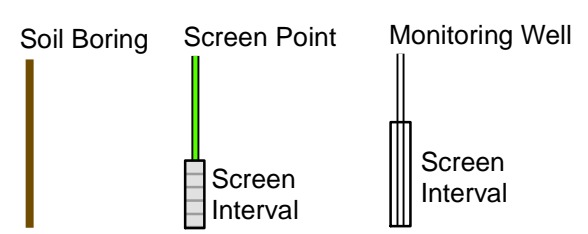
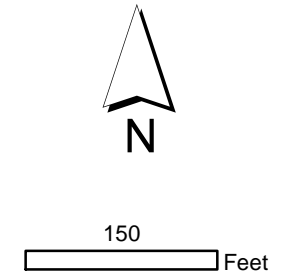




Figure 28
Summary of Analytical Results in Sediment and Surface Water
 Former Florida State Fire College
 1501 West Silver Springs Boulevard
 Ocala, Marion County, Florida

Notes:

1. ft BLS indicates feet below land surface.
2. Surface water results and screening criteria are provided in nanograms per liter (ng/L). Sediment results are provided in micrograms per kilogram (ug/kg).
3. Depth for sediment is provided in feet below land surface (ft BLS).
4. Depth for surface water is provided in feet below water surface (ft BWS).
5. U indicates that the compound was analyzed for but not detected. The report value is the MDL for the analyzed sample.
6. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
7. Blue shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection surface water screening level based on the consumption of freshwater and estuarine finfish and shellfish.
8. Cleanup target levels have not been established for sediment.
9. Site and parcel boundaries obtained from Florida Department of Revenue Property Tax Oversight website (https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx), Marion County 2020.
10. 2021 Aerial Source: Florida Department of Transportation Surveying and Mapping Office APLUS website.



Date: June 06, 2022

ATTACHMENT A
LABORATORY ANALYTICAL
REPORTS

Chemical Analysis Report

SIS-2022-03-31-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Former Florida State Fire College Site Wide Soil and GW Investigation**
Request ID: **RQ-2022-03-28-05**
Customer: **SIS**
Project ID: **SIS-PFAS**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: Robert Cilek

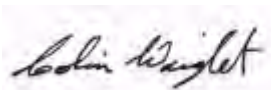
For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

This Report replaces the previous Report Serial Number: 0136939

Report Comment: No previous report was issued,.

Revision certified by: Colin Wright, Program Administrator

Date Certified: 27-APR-2022 12:50



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 14:45

Field ID: SP-27 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315769	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	12		ng/L	P411795	
		Perfluorobutanoic acid (PFBA)**	6.7	I	ng/L	P411795	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P411795	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411795	
		Perfluoroheptanoic acid (PFHpA)**	9.4		ng/L	P411795	
		Perfluorohexanesulfonic acid (PFHxS)**	44		ng/L	P411795	
		Perfluorohexanoic acid (PFHxA)**	15		ng/L	P411795	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411795	
		Perfluorooctanoic acid (PFOA)**	8.6		ng/L	P411795	
		Perfluorooctanesulfonic acid (PFOS)**	70		ng/L	P411795	
		Perfluoropentanoic acid (PFPeA)**	20		ng/L	P411795	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411795	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411795	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411795	
		Perfluoropentanesulfonic acid (PFPeS)**	8.4		ng/L	P411795	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.92	I	ng/L	P411795	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P411795	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411795	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P411795	
		Perfluoro-1-butane sulfonamide (FBSA)**	7.4		ng/L	P411795	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.2	I	ng/L	P411795	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P411795	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411795	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411795	RPD
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411795	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P411795	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P411795	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411795	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P411795	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411795	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411795	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411795	

Field ID: SP-27 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315769	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P411795	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.2	U	ng/L	P411795	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 15:05

Field ID: SP-27 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315770	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	11		ng/L	P411795	
		Perfluorobutanoic acid (PFBA)**	6.2	I	ng/L	P411795	
		Perfluorodecanoic acid (PFDA)**	4.4	U	ng/L	P411795	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411795	
		Perfluoroheptanoic acid (PFHpA)**	7.8	I	ng/L	P411795	
		Perfluorohexanesulfonic acid (PFHxS)**	61		ng/L	P411795	
		Perfluorohexanoic acid (PFHxA)**	14		ng/L	P411795	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P411795	
		Perfluorooctanoic acid (PFOA)**	7.6	I	ng/L	P411795	
		Perfluorooctanesulfonic acid (PFOS)**	77		ng/L	P411795	
		Perfluoropentanoic acid (PFPeA)**	20		ng/L	P411795	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411795	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411795	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411795	
		Perfluoropentanesulfonic acid (PFPeS)**	9.7		ng/L	P411795	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.95	I	ng/L	P411795	
		Perfluorononanesulfonic acid (PFNS)**	0.44	U	ng/L	P411795	
		Perfluorodecanesulfonic acid (PFDS)**	0.44	U	ng/L	P411795	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.44	U	ng/L	P411795	
		Perfluoro-1-butane sulfonamide (FBSA)**	10		ng/L	P411795	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.88	U	ng/L	P411795	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.44	U	ng/L	P411795	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411795	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411795	RPD
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411795	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.88	U	ng/L	P411795	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.88	U	ng/L	P411795	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.4	U	ng/L	P411795	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.4	U	ng/L	P411795	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.4	U	ng/L	P411795	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.4	U	ng/L	P411795	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.4	U	ng/L	P411795	

Field ID: SP-27 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315770	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.4	U	ng/L	P411795	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.8	U	ng/L	P411795	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 15:05

Field ID: SP-27 (46-50)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315771	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	11		ng/L	P411795	
		Perfluorobutanoic acid (PFBA)**	6.8	I	ng/L	P411795	
		Perfluorodecanoic acid (PFDA)**	4.4	U	ng/L	P411795	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411795	
		Perfluoroheptanoic acid (PFHpA)**	8.5	I	ng/L	P411795	
		Perfluorohexanesulfonic acid (PFHxS)**	53		ng/L	P411795	
		Perfluorohexanoic acid (PFHxA)**	16		ng/L	P411795	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P411795	
		Perfluorooctanoic acid (PFOA)**	6.3	I	ng/L	P411795	
		Perfluorooctanesulfonic acid (PFOS)**	77		ng/L	P411795	
		Perfluoropentanoic acid (PFPeA)**	17		ng/L	P411795	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411795	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411795	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411795	
		Perfluoropentanesulfonic acid (PFPeS)**	9.7		ng/L	P411795	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.88	I	ng/L	P411795	
		Perfluorononanesulfonic acid (PFNS)**	0.44	U	ng/L	P411795	
		Perfluorodecanesulfonic acid (PFDS)**	0.44	U	ng/L	P411795	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.44	U	ng/L	P411795	
		Perfluoro-1-butane sulfonamide (FBSA)**	9.8		ng/L	P411795	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.88	U	ng/L	P411795	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.44	U	ng/L	P411795	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411795	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411795	RPD
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411795	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.88	U	ng/L	P411795	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.88	U	ng/L	P411795	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.4	U	ng/L	P411795	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.4	U	ng/L	P411795	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.4	U	ng/L	P411795	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.4	U	ng/L	P411795	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.4	U	ng/L	P411795	

Field ID: SP-27 (46-50)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315771	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.4	U	ng/L	P411795	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.8	U	ng/L	P411795	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 15:25

Field ID: SP-27 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315772	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	10		ng/L	P411795	
		Perfluorobutanoic acid (PFBA)**	4.5	U	ng/L	P411795	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P411795	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411795	
		Perfluoroheptanoic acid (PFHpA)**	8.8	I	ng/L	P411795	
		Perfluorohexanesulfonic acid (PFHxS)**	50		ng/L	P411795	
		Perfluorohexanoic acid (PFHxA)**	11		ng/L	P411795	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P411795	
		Perfluorooctanoic acid (PFOA)**	6.0	I	ng/L	P411795	
		Perfluorooctanesulfonic acid (PFOS)**	84		ng/L	P411795	
		Perfluoropentanoic acid (PFPeA)**	15		ng/L	P411795	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411795	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411795	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411795	
		Perfluoropentanesulfonic acid (PFPeS)**	8.8		ng/L	P411795	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.0	I	ng/L	P411795	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P411795	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P411795	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.45	U	ng/L	P411795	
		Perfluoro-1-butane sulfonamide (FBSA)**	10		ng/L	P411795	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	6.1		ng/L	P411795	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.45	U	ng/L	P411795	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411795	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411795	RPD
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411795	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.89	U	ng/L	P411795	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.89	U	ng/L	P411795	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P411795	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.5	U	ng/L	P411795	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P411795	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P411795	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P411795	

Field ID: SP-27 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315772	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.5	U	ng/L	P411795	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.9	U	ng/L	P411795	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 16:00

Field ID: SP-27 (74-78)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315773	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	14		ng/L	P411795	
		Perfluorobutanoic acid (PFBA)**	8.8	I	ng/L	P411795	
		Perfluorodecanoic acid (PFDA)**	6.4	U	ng/L	P411795	
		Perfluorododecanoic acid (PFDoA)**	3.2	U	ng/L	P411795	
		Perfluoroheptanoic acid (PFHpA)**	7.6	I	ng/L	P411795	
		Perfluorohexanesulfonic acid (PFHxS)**	41		ng/L	P411795	
		Perfluorohexanoic acid (PFHxA)**	12	I	ng/L	P411795	
		Perfluorononanoic acid (PFNA)**	3.2	U	ng/L	P411795	
		Perfluorooctanoic acid (PFOA)**	5.4	I	ng/L	P411795	
		Perfluorooctanesulfonic acid (PFOS)**	72		ng/L	P411795	
		Perfluoropentanoic acid (PFPeA)**	16		ng/L	P411795	
		Perfluorotetradecanoic acid (PFTeA)**	3.2	U	ng/L	P411795	
		Perfluorotridecanoic acid (PFTriA)**	3.2	U	ng/L	P411795	
		Perfluoroundecanoic acid (PFUnA)**	3.2	U	ng/L	P411795	
		Perfluoropentanesulfonic acid (PFPeS)**	6.6		ng/L	P411795	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.3	U	ng/L	P411795	
		Perfluorononanesulfonic acid (PFNS)**	0.64	U	ng/L	P411795	
		Perfluorodecanesulfonic acid (PFDS)**	0.64	U	ng/L	P411795	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.64	U	ng/L	P411795	
		Perfluoro-1-butane sulfonamide (FBSA)**	6.2		ng/L	P411795	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.6	I	ng/L	P411795	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.64	U	ng/L	P411795	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	3.2	U	ng/L	P411795	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	3.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	3.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	26	U	ng/L	P411795	RPD
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	3.2	U	ng/L	P411795	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.3	U	ng/L	P411795	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.3	U	ng/L	P411795	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	6.4	U	ng/L	P411795	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	6.4	U	ng/L	P411795	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	6.4	U	ng/L	P411795	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	6.4	U	ng/L	P411795	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	6.4	U	ng/L	P411795	

Field ID: SP-27 (74-78)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315773	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	6.4	U	ng/L	P411795	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	13	U	ng/L	P411795	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 09:50

Field ID: SP-28 (41-45)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315774	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	16		ng/L	P411795	
		Perfluorobutanoic acid (PFBA)**	9.5	I	ng/L	P411795	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411795	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411795	
		Perfluoroheptanoic acid (PFHpA)**	13		ng/L	P411795	
		Perfluorohexanesulfonic acid (PFHxS)**	76		ng/L	P411795	
		Perfluorohexanoic acid (PFHxA)**	24		ng/L	P411795	
		Perfluorononanoic acid (PFNA)**	3.2	I	ng/L	P411795	
		Perfluorooctanoic acid (PFOA)**	10		ng/L	P411795	
		Perfluorooctanesulfonic acid (PFOS)**	98		ng/L	P411795	
		Perfluoropentanoic acid (PFPeA)**	28		ng/L	P411795	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411795	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411795	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411795	
		Perfluoropentanesulfonic acid (PFPeS)**	13		ng/L	P411795	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.5	I	ng/L	P411795	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411795	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411795	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411795	
		Perfluoro-1-butane sulfonamide (FBSA)**	12		ng/L	P411795	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411795	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411795	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411795	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411795	RPD
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411795	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411795	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411795	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411795	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411795	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411795	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411795	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411795	

Field ID: SP-28 (41-45)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315774	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411795	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411795	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 10:10

Field ID: SP-28 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315775	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	19		ng/L	P411795	
		Perfluorobutanoic acid (PFBA)**	8.8	I	ng/L	P411795	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411795	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411795	
		Perfluoroheptanoic acid (PFHpA)**	15		ng/L	P411795	
		Perfluorohexanesulfonic acid (PFHxS)**	84		ng/L	P411795	
		Perfluorohexanoic acid (PFHxA)**	23		ng/L	P411795	
		Perfluorononanoic acid (PFNA)**	2.7	I	ng/L	P411795	
		Perfluorooctanoic acid (PFOA)**	11		ng/L	P411795	
		Perfluorooctanesulfonic acid (PFOS)**	110		ng/L	P411795	
		Perfluoropentanoic acid (PFPeA)**	28		ng/L	P411795	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411795	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411795	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411795	
		Perfluoropentanesulfonic acid (PFPeS)**	15		ng/L	P411795	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.5	I	ng/L	P411795	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411795	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411795	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411795	
		Perfluoro-1-butane sulfonamide (FBSA)**	12		ng/L	P411795	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411795	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411795	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411795	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411795	RPD
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411795	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411795	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411795	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411795	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411795	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411795	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411795	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411795	

Field ID: SP-28 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315775	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411795	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411795	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 10:20

Field ID: FRB-8

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315780	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: FRB-8

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315780	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 10:30

Field ID: SP-28 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315776	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	20		ng/L	P411795	
		Perfluorobutanoic acid (PFBA)**	8.8	I	ng/L	P411795	
		Perfluorodecanoic acid (PFDA)**	4.4	U	ng/L	P411795	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411795	
		Perfluoroheptanoic acid (PFHpA)**	14		ng/L	P411795	
		Perfluorohexanesulfonic acid (PFHxS)**	87		ng/L	P411795	
		Perfluorohexanoic acid (PFHxA)**	19		ng/L	P411795	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P411795	
		Perfluorooctanoic acid (PFOA)**	9.7		ng/L	P411795	
		Perfluorooctanesulfonic acid (PFOS)**	120		ng/L	P411795	
		Perfluoropentanoic acid (PFPeA)**	29		ng/L	P411795	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411795	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411795	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411795	
		Perfluoropentanesulfonic acid (PFPeS)**	18		ng/L	P411795	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.6	I	ng/L	P411795	
		Perfluorononanesulfonic acid (PFNS)**	0.44	U	ng/L	P411795	
		Perfluorodecanesulfonic acid (PFDS)**	0.44	U	ng/L	P411795	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.44	U	ng/L	P411795	
		Perfluoro-1-butane sulfonamide (FBSA)**	17		ng/L	P411795	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.88	U	ng/L	P411795	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.44	U	ng/L	P411795	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411795	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411795	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411795	RPD
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411795	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.2	I	ng/L	P411795	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.95	I	ng/L	P411795	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.4	U	ng/L	P411795	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.4	U	ng/L	P411795	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.4	U	ng/L	P411795	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.4	U	ng/L	P411795	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.4	U	ng/L	P411795	

Field ID: SP-28 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315776	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.4	U	ng/L	P411795	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.8	U	ng/L	P411795	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 10:55

Field ID: SP-28 (86-90)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315777	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	22		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	13	I	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.4	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	18		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	130		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	27		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	4.9	I	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	8.7	I	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	150		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	34		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	25		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	2.3	I	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.44	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.44	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.44	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	29		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.88	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.44	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.88	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.88	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.4	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.4	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.4	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.4	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.4	U	ng/L	P411877	

Field ID: SP-28 (86-90)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315777	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.4	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.8	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 13:20

Field ID: EQB-44

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315781	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: EQB-44

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315781	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 14:30

Field ID: SP-26 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315778	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	26		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	37		ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	82		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	340		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	110		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	18		ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	82		ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	1.4E+03		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	99		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	27		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	10		ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	34		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	340		ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.7	I	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	170		ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	120		ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.85	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.85	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.3	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P411877	

Field ID: SP-26 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315778	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	5.6	I	ng/L	P411877	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.5	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 14:50

Field ID: SP-26 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315779	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	31		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	55		ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	140		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	520		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	140		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	26		ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	100		ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	1.6E+03		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	140		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	40		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	16		ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	45		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	370		ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.2	I	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	300		ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	120		ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: SP-26 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315779	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	6.5	I	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 11:00

Field ID: SW-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315816	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	8.9		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	12	I	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	7.3	I	ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	39		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	13		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	4.4	I	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	37		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	29		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	6.4		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.7		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: SW-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315816	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 11:35

Field ID: SW-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315817	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.98	I	ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	20		ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	3.2		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	16		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	4.4	I	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	4.8	I	ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	35		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: SW-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315817	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 11:50

Field ID: SW-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315818	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.86	I	ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	8.8	I	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	1.4	I	ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	8.0		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	2.4	I	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	3.4	I	ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	18		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.86	I	ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: SW-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315818	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 11:11

Field ID: Sed-1 (0-1)

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315804	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.16	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.63	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.63	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.31	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.31	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.16	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.31	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.31	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	0.31	U	ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.31	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.31	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.31	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.31	U	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.31	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.16	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.16	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.16	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.37	I	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.16	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.16	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.16	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.16	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.31	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.31	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.31	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.5	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.31	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.16	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.16	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.63	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.31	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.31	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.31	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.31	U	ug/Kg	P411876	

Field ID: Sed-1 (0-1)

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315804	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.31	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.3	U	ug/Kg	P411876	
2315836	SM 2540 G (20th)	% Solid	74.3	A	%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 11:40

Field ID: Sed-2 (0-1)

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315805	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.18	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.73	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.73	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.37	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.37	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.18	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.37	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.37	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	2.9		ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.37	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.37	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.37	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.53	I	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.37	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.18	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.18	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.18	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.85		ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.18	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.18	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.18	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.18	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.37	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.37	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.37	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.9	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.37	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.18	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.18	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.73	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.37	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.37	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.37	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.37	U	ug/Kg	P411876	

Field ID: Sed-2 (0-1)

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315805	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.37	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.5	U	ug/Kg	P411876	
2315837	SM 2540 G (20th)	% Solid	66.3		%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 11:55

Field ID: Sed-3 (0-1)

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315806	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.32	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	1.3	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	1.3	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.63	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.63	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.32	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.63	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.63	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	12		ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.63	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.63	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	1.9	I	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	2.4	I	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.63	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.32	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.32	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.32	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	2.0		ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.32	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.32	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.32	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.32	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.63	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.63	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.63	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	5.1	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.63	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.32	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.32	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	1.3	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.63	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.63	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.63	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.63	U	ug/Kg	P411876	

Field ID: Sed-3 (0-1)

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315806	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.63	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	2.5	U	ug/Kg	P411876	
2315838	SM 2540 G (20th)	% Solid	42.8		%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 12:30

Field ID: SB-75 (0-0.5)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315807	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.50	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.50	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.68	I	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.25	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.42	I	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.25	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.25	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	2.0		ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.25	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.41	I	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.25	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.32	I	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.67	I	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.25	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.25	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.25	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.0	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.25	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.50	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.25	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.25	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.25	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.25	U	ug/Kg	P411876	

Field ID: SB-75 (0-0.5)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315807	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.25	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P411876	
2315839	SM 2540 G (20th)	% Solid	86.5		%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 12:35

Field ID: SB-75 (0.5-2)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315808	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.47	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.47	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.12	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.23	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.23	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	6.5		ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.23	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.23	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.9	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.47	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.23	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P411876	

Field ID: SB-75 (0.5-2)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315808	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.93	U	ug/Kg	P411876	
2315840	SM 2540 G (20th)	% Solid	91.0		%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 12:40

Field ID: SB-75 (2-4)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315809	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	4.6		ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P411876	

Field ID: SB-75 (2-4)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315809	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.88	U	ug/Kg	P411876	
2315841	SM 2540 G (20th)	% Solid	94.2		%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 13:15

Field ID: SB-76 (0-0.5)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315810	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	3.6		ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.32	I	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P411876	

Field ID: SB-76 (0-0.5)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315810	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.89	U	ug/Kg	P411876	
2315842	SM 2540 G (20th)	% Solid	93.7		%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 13:17

Field ID: SB-76 (0.5-2)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315811	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.46	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.46	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.23	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.23	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	2.0		ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.23	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.23	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.46	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.23	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P411876	

Field ID: SB-76 (0.5-2)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315811	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.91	U	ug/Kg	P411876	
2315843	SM 2540 G (20th)	% Solid	92.1		%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 13:20

Field ID: SB-76 (2-4)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315812	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.26	I	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	12		ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P411876	

Field ID: SB-76 (2-4)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315812	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.88	U	ug/Kg	P411876	
2315844	SM 2540 G (20th)	% Solid	94.5		%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 14:02

Field ID: SB-77 (0-0.5)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315813	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.45	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	1.1		ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P411876	

Field ID: SB-77 (0-0.5)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315813	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	0.90	U	ug/Kg	P411876	
2315845	SM 2540 G (20th)	% Solid	92.8		%	P412189	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 14:05

Field ID: SB-77 (0.5-2)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315814	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	0.46	I	ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P411876	

Field ID: SB-77 (0.5-2)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315814	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.87	U	ug/Kg	P411876	
2315846	SM 2540 G (20th)	% Solid	94.7	A	%	P412190	

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 14:07

Field ID: SB-77 (2-4)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315815	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P411876	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P411876	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P411876	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P411876	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P411876	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P411876	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P411876	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P411876	
		Perfluorooctanesulfonic acid (PFOS)**	0.22	U	ug/Kg	P411876	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P411876	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P411876	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P411876	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P411876	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P411876	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P411876	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P411876	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P411876	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P411876	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P411876	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P411876	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P411876	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P411876	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P411876	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P411876	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P411876	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P411876	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P411876	

Field ID: SB-77 (2-4)

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315815	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P411876	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.86	U	ug/Kg	P411876	
2315847	SM 2540 G (20th)	% Solid	95.8		%	P412190	

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 11:27

Field ID: DEPMW-1 (100-120)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315819	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	14		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	11	I	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	19		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	79		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	18		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	11		ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	120		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	26		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	13		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.3	I	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	11		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: DEPMW-1 (100-120)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315819	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 11:00

Field ID: DEPMW-2 (25-45)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315820	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	17		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	4.8	I	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	7.1	I	ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	77		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	11		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.6	I	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	6.8	I	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	96		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	12		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	15		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	I	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	7.5		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: DEPMW-2 (25-45)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315820	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 08:05

Field ID: DEPMW-3 (100-120)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315821	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	8.5		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	17		ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	23		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	73		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	26		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	18		ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	140		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	46		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	13		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.9	I	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	5.8		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	46	I	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: DEPMW-3 (100-120)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315821	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 17:45

Field ID: DEPMW-4 (25-45)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315822	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.1	I	ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	12	I	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	1.7	I	ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	6.0	I	ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: DEPMW-4 (25-45)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315822	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 15:03

Field ID: DEPMW-5 (100-120)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315823	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	21		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	16		ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	29		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	160		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	35		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	4.2	I	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	20		ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	320		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	48		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	22		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.2	I	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	20		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	7.1		ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: DEPMW-5 (100-120)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315823	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	I	ng/L	P411877	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 14:40

Field ID: DEPMW-6 (25-45)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315824	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	20		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	7.0	I	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	9.7		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	210		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	21		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	12		ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	450		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	18		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	14		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.7		ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	14		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	62		ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: DEPMW-6 (25-45)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315824	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 14:40

Field ID: DEPMW-6 (25-45)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315825	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	19		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	7.8	I	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	9.7		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	200		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	25		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	12		ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	430		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	18		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	14		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.4		ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	15		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	60		ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: DEPMW-6 (25-45)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315825	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 09:18

Field ID: DEPMW-7 (100-120)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315826	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	15		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	11	I	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	16		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	76		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	20		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.9	I	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	12		ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	100		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	28		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	14		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.2	I	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	9.3		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: DEPMW-7 (100-120)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315826	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 15:57

Field ID: DEPMW-8 (20-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315827	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	25		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	24		ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.1	I	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	24		ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	440		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	57		ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	8.1		ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	25		ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	3.9E+03		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	37		ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	37		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	14		ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	44		ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	600		ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	5.2		ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: DEPMW-8 (20-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315827	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 10:14

Field ID: VISAMW (M-200)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315828	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	11		ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	4.1	I	ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	52		ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	7.2	I	ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	2.4	I	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	98		ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	8.0	I	ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	7.9		ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.0	I	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.7	I	ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: VISAMW (M-200)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315828	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 13:45

Field ID: EQB-49

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315830	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411878	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411878	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411878	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411878	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411878	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411878	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411878	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411878	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411878	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411878	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411878	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411878	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411878	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411878	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411878	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411878	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411878	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411878	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411878	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411878	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411878	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411878	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411878	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411878	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411878	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411878	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411878	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P411878	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411878	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411878	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411878	

Field ID: EQB-49

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315830	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411878	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411878	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/28/2022 10:42

Field ID: EQB-50

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315831	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411878	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411878	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411878	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411878	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411878	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411878	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411878	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411878	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411878	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411878	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411878	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411878	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411878	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411878	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411878	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411878	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411878	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411878	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411878	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411878	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411878	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411878	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411878	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411878	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411878	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411878	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411878	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411878	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411878	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411878	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411878	

Field ID: EQB-50

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315831	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411878	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411878	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 08:36

Field ID: EQB-52

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315832	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411878	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411878	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411878	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411878	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411878	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411878	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411878	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411878	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411878	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411878	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411878	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411878	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411878	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411878	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411878	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411878	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411878	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411878	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411878	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411878	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411878	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411878	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411878	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411878	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411878	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411878	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411878	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411878	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411878	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411878	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411878	

Field ID: EQB-52

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315832	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411878	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411878	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 03/29/2022 09:15

Field ID: FRB-9

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315829	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411877	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411877	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411877	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411877	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411877	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411877	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411877	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411877	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411877	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411877	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411877	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411877	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411877	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411877	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411877	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411877	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411877	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411877	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411877	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411877	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411877	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411877	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411877	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411877	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411877	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411877	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411877	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411877	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411877	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411877	

Field ID: FRB-9

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315829	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411877	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411877	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P411795

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P411876

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P411876

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3
Batch ID: P411877

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P411877

Component	Result	Code	Units
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3
Batch ID: P411878

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P411878

Component	Result	Code	Units
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411795

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	93.9		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.8		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.5		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	104		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	107		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	111		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	84.2		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	113		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	152		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	157		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.5		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	105		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.2		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	101		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	118		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	104		P	30 - 160
Perfluorobutanoic acid (PFBA)	93.5		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	92.2		P	30 - 160
Perfluorodecanoic acid (PFDA)	97.8		P	30 - 160
Perfluorododecanoic acid (PFDoA)	132		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	71.9		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	81.2		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.7		P	30 - 160
Perfluorohexanoic acid (PFHxA)	93.7		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	92.9		P	30 - 160
Perfluorononanoic acid (PFNA)	115		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	112		P	30 - 160
Perfluorooctanoic acid (PFOA)	138		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	113		P	30 - 160
Perfluoropentanoic acid (PFPeA)	100		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	103		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	152		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	119		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	98.2		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	142		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	127		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	132		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	99.6		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	133		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	139		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	81.7		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.3		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	145		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	110		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P411876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	99.1		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	110		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	112		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	112		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	98.8		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	110		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	109		P	40 - 160
Perfluorobutanoic acid (PFBA)	128		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	119		P	40 - 160
Perfluorodecanoic acid (PFDA)	133		P	40 - 160
Perfluorododecanoic acid (PFDoA)	126		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	123		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	127		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	104		P	40 - 160
Perfluorohexanoic acid (PFHxA)	125		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	113		P	40 - 160
Perfluorononanoic acid (PFNA)	103		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	129		P	40 - 160
Perfluorooctanoic acid (PFOA)	117		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	120		P	40 - 160
Perfluoropentanoic acid (PFPeA)	95.6		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	112		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	114		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	115		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	85.4		P	40 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P411877

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	93.1		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	116		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	75.2		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.9		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	107		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	116		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	91.7		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	119		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	101		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	148		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	121		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	112		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	94.0		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	97.6		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.2		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	108		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	122		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	98.8		P	30 - 160
Perfluorobutanoic acid (PFBA)	92.0		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	94.8		P	30 - 160
Perfluorodecanoic acid (PFDA)	114		P	30 - 160
Perfluorododecanoic acid (PFDoA)	119		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P411877

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoroheptanesulfonic acid (PFHpS)	71.3		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	121		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.3		P	30 - 160
Perfluorohexanoic acid (PFHxA)	82.9		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	90.1		P	30 - 160
Perfluorononanoic acid (PFNA)	96.8		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	124		P	30 - 160
Perfluorooctanoic acid (PFOA)	122		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	117		P	30 - 160
Perfluoropentanoic acid (PFPeA)	107		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	98.0		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	153		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	158		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	135		P	30 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P411878

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	104		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	103		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	91.4		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	140		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	114		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	84.2		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	92.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	117		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	84.1		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	154		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	142		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	88.1		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	99.2		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	76.6		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	109		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	115		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	94.5		P	30 - 160
Perfluorobutanoic acid (PFBA)	109		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	101		P	30 - 160
Perfluorodecanoic acid (PFDA)	116		P	30 - 160
Perfluorododecanoic acid (PFDoA)	106		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	68.7		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	114		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	88.1		P	30 - 160
Perfluorohexanoic acid (PFHxA)	67.1		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	91.7		P	30 - 160
Perfluorononanoic acid (PFNA)	133		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	115		P	30 - 160
Perfluorooctanoic acid (PFOA)	70.8		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	115		P	30 - 160
Perfluoropentanoic acid (PFPeA)	97.1		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	96.1		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P411878

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluorotetradecanoic acid (PFTeA)	111		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	147		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	103		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411795

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314778	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	97.2	73.3	P/P	30 - 160
2314778	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	109	99.6	P/P	30 - 160
2314778	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.4	95.6	P/P	30 - 160
2314778	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	130	87.8	P/P	30 - 160
2314778	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	152	151	P/P	30 - 160
2314778	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120	108	P/P	30 - 160
2314778	Hexafluoropropylene oxide dimer acid (HFPO-DA)	85.4	81.4	P/P	30 - 160
2314778	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	128	107	P/P	30 - 160
2314778	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	98.4	114	P/P	30 - 160
2314778	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	135	134	P/P	30 - 160
2314778	Perfluoro-1-butane sulfonamide (FBSA)	127	124	P/P	30 - 160
2314778	Perfluoro-1-hexane sulfonamide (FHxSA)	138	136	P/P	30 - 160
2314778	Perfluoro-1-octane sulfonamide (FOSA)	112	94.7	P/P	30 - 160
2314778	Perfluoro-3-methoxypropanoic acid (PFMPA)	123	106	P/P	30 - 160
2314778	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	91.2	72.8	P/P	30 - 160
2314778	Perfluoro-4-methoxybutanoic acid (PFMBA)	111	106	P/P	30 - 160
2314778	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	135	106	P/P	30 - 160
2314778	Perfluorobutanesulfonic acid (PFBS)	136	89.8	P/P	30 - 160
2314778	Perfluorobutanoic acid (PFBA)	122	85.6	P/P	30 - 160
2314778	Perfluorodecanesulfonic acid (PFDS)	84.6	66.9	P/P	30 - 160
2314778	Perfluorodecanoic acid (PFDA)	134	122	P/P	30 - 160
2314778	Perfluorododecanoic acid (PFDoA)	122	123	P/P	30 - 160
2314778	Perfluoroheptanesulfonic acid (PFHpS)	83.2	62.7	P/P	30 - 160
2314778	Perfluoroheptanoic acid (PFHpA)	114	116	P/P	30 - 160
2314778	Perfluorohexanesulfonic acid (PFHxS)	124	88.5	P/P	30 - 160
2314778	Perfluorohexanoic acid (PFHxA)	136	113	P/P	30 - 160
2314778	Perfluorononanesulfonic acid (PFNS)	95.1	74.3	P/P	30 - 160
2314778	Perfluorononanoic acid (PFNA)	98.2	99.0	P/P	30 - 160
2314778	Perfluorooctanoic acid (PFOA)	146	102	P/P	30 - 160
2314778	Perfluoropentanesulfonic acid (PFPeS)	124	107	P/P	30 - 160
2314778	Perfluoropentanoic acid (PFPeA)	111	125	P/P	30 - 160
2314778	Perfluoropropanesulfonic acid (PFPrS)	90.7	103	P/P	30 - 160
2314778	Perfluorotetradecanoic acid (PFTeA)	132	124	P/P	30 - 160
2314778	Perfluorotridecanoic acid (PFTriA)	139	146	P/P	30 - 160
2314778	Perfluoroundecanoic acid (PFUnA)	151	155	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315804	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	126	123	P/P	40 - 160
2315804	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	120	99.1	P/P	40 - 160
2315804	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	81.3	92.6	P/P	40 - 160
2315804	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	97.8	97.6	P/P	40 - 160
2315804	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	139	143	P/P	40 - 160
2315804	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	125	118	P/P	40 - 160
2315804	Hexafluoropropylene oxide dimer acid (HFPO-DA)	138	129	P/P	40 - 160
2315804	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	123	135	P/P	40 - 160
2315804	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	86.4	92.3	P/P	40 - 160
2315804	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	135	145	P/P	40 - 160
2315804	Perfluoro-1-butane sulfonamide (FBSA)	116	121	P/P	40 - 160
2315804	Perfluoro-1-hexane sulfonamide (FHxSA)	88.1	101	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315804	Perfluoro-1-octane sulfonamide (FOSA)	113	108	P/P	40 - 160
2315804	Perfluoro-3-methoxypropanoic acid (PFMPA)	114	111	P/P	40 - 160
2315804	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	107	111	P/P	40 - 160
2315804	Perfluoro-4-methoxybutanoic acid (PFMBA)	83.5	92.8	P/P	40 - 160
2315804	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	110	99.2	P/P	40 - 160
2315804	Perfluorobutanesulfonic acid (PFBS)	101	96.6	P/P	40 - 160
2315804	Perfluorobutanoic acid (PFBA)	116	124	P/P	40 - 160
2315804	Perfluorodecanesulfonic acid (PFDS)	125	115	P/P	40 - 160
2315804	Perfluorodecanoic acid (PFDA)	114	125	P/P	40 - 160
2315804	Perfluorododecanoic acid (PFDoA)	151	154	P/P	40 - 160
2315804	Perfluoroheptanesulfonic acid (PFHpS)	124	126	P/P	40 - 160
2315804	Perfluoroheptanoic acid (PFHpA)	92.4	122	P/P	40 - 160
2315804	Perfluorohexanesulfonic acid (PFHxS)	108	113	P/P	40 - 160
2315804	Perfluorohexanoic acid (PFHxA)	105	105	P/P	40 - 160
2315804	Perfluorononanesulfonic acid (PFNS)	113	111	P/P	40 - 160
2315804	Perfluorononanoic acid (PFNA)	133	139	P/P	40 - 160
2315804	Perfluorooctanesulfonic acid (PFOS)	125	125	P/P	40 - 160
2315804	Perfluorooctanoic acid (PFOA)	127	117	P/P	40 - 160
2315804	Perfluoropentanesulfonic acid (PFPeS)	103	102	P/P	40 - 160
2315804	Perfluoropentanoic acid (PFPeA)	127	123	P/P	40 - 160
2315804	Perfluoropropanesulfonic acid (PFPrS)	107	108	P/P	40 - 160
2315804	Perfluorotetradecanoic acid (PFTeA)	121	119	P/P	40 - 160
2315804	Perfluorotridecanoic acid (PFTriA)	149	123	P/P	40 - 160
2315804	Perfluoroundecanoic acid (PFUnA)	102	117	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2316240	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	68.3	61.4	P/P	30 - 160
2316240	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	104	P/P	30 - 160
2316240	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	105	89.3	P/P	30 - 160
2316240	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	123	136	P/P	30 - 160
2316240	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	110	104	P/P	30 - 160
2316240	Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.8	69.7	P/P	30 - 160
2316240	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	102	129	P/P	30 - 160
2316240	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	111	114	P/P	30 - 160
2316240	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	127	119	P/P	30 - 160
2316240	Perfluoro-1-butane sulfonamide (FBSA)	156	149	P/P	30 - 160
2316240	Perfluoro-1-hexane sulfonamide (FHxSA)	135	109	P/P	30 - 160
2316240	Perfluoro-1-octane sulfonamide (FOSA)	99.8	93.2	P/P	30 - 160
2316240	Perfluoro-3-methoxypropanoic acid (PFMPA)	111	91.4	P/P	30 - 160
2316240	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	93.6	79.0	P/P	30 - 160
2316240	Perfluoro-4-methoxybutanoic acid (PFMBA)	110	122	P/P	30 - 160
2316240	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113	106	P/P	30 - 160
2316240	Perfluorobutanesulfonic acid (PFBS)	108	90.5	P/P	30 - 160
2316240	Perfluorobutanoic acid (PFBA)	122	96.8	P/P	30 - 160
2316240	Perfluorodecanesulfonic acid (PFDS)	81.6	72.5	P/P	30 - 160
2316240	Perfluorodecanoic acid (PFDA)	115	103	P/P	30 - 160
2316240	Perfluorododecanoic acid (PFDoA)	136	111	P/P	30 - 160
2316240	Perfluoroheptanesulfonic acid (PFHpS)	85.1	66.0	P/P	30 - 160
2316240	Perfluoroheptanoic acid (PFHpA)	113	90.8	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2316240	Perfluorohexanesulfonic acid (PFHxS)	117	66.4	P/P	30 - 160
2316240	Perfluorohexanoic acid (PFHxA)	136	118	P/P	30 - 160
2316240	Perfluorononanesulfonic acid (PFNS)	94.7	84.8	P/P	30 - 160
2316240	Perfluorononanoic acid (PFNA)	99.3	78.4	P/P	30 - 160
2316240	Perfluorooctanoic acid (PFOA)	135	107	P/P	30 - 160
2316240	Perfluoropentanesulfonic acid (PFPeS)	97.8	95.2	P/P	30 - 160
2316240	Perfluoropropanesulfonic acid (PFPrS)	85.4	95.4	P/P	30 - 160
2316240	Perfluorotetradecanoic acid (PFTeA)	139	133	P/P	30 - 160
2316240	Perfluorotridecanoic acid (PFTriA)	140	155	P/P	30 - 160
2316240	Perfluoroundecanoic acid (PFUnA)	126	113	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411878

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2316214	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	61.9	66.3	P/P	30 - 160
2316214	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	81.7	109	P/P	30 - 160
2316214	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	92.3	113	P/P	30 - 160
2316214	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	107	118	P/P	30 - 160
2316214	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	133	144	P/P	30 - 160
2316214	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	111	118	P/P	30 - 160
2316214	Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.2	76.5	P/P	30 - 160
2316214	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	85.4	101	P/P	30 - 160
2316214	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	118	113	P/P	30 - 160
2316214	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	81.1	97.9	P/P	30 - 160
2316214	Perfluoro-1-butane sulfonamide (FBSA)	130	134	P/P	30 - 160
2316214	Perfluoro-1-hexane sulfonamide (FHxSA)	130	146	P/P	30 - 160
2316214	Perfluoro-1-octane sulfonamide (FOSA)	97.9	103	P/P	30 - 160
2316214	Perfluoro-3-methoxypropanoic acid (PFMPA)	110	116	P/P	30 - 160
2316214	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.0	82.2	P/P	30 - 160
2316214	Perfluoro-4-methoxybutanoic acid (PFMBA)	99.0	107	P/P	30 - 160
2316214	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	118	118	P/P	30 - 160
2316214	Perfluorobutanesulfonic acid (PFBS)	96.6	90.0	P/P	30 - 160
2316214	Perfluorobutanoic acid (PFBA)	119	122	P/P	30 - 160
2316214	Perfluorodecanesulfonic acid (PFDS)	62.4	66.2	P/P	30 - 160
2316214	Perfluorodecanoic acid (PFDA)	114	114	P/P	30 - 160
2316214	Perfluorododecanoic acid (PFDoA)	109	95.3	P/P	30 - 160
2316214	Perfluoroheptanesulfonic acid (PFHpS)	66.8	77.0	P/P	30 - 160
2316214	Perfluoroheptanoic acid (PFHpA)	109	118	P/P	30 - 160
2316214	Perfluorohexanesulfonic acid (PFHxS)	85.2	93.8	P/P	30 - 160
2316214	Perfluorohexanoic acid (PFHxA)	72.4	73.4	P/P	30 - 160
2316214	Perfluorononanesulfonic acid (PFNS)	82.0	83.3	P/P	30 - 160
2316214	Perfluorononanoic acid (PFNA)	102	121	P/P	30 - 160
2316214	Perfluorooctanoic acid (PFOA)	114	125	P/P	30 - 160
2316214	Perfluoropentanesulfonic acid (PFPeS)	116	119	P/P	30 - 160
2316214	Perfluoropentanoic acid (PFPeA)	121	117	P/P	30 - 160
2316214	Perfluoropropanesulfonic acid (PFPrS)	90.5	92.4	P/P	30 - 160
2316214	Perfluorotetradecanoic acid (PFTeA)	127	122	P/P	30 - 160
2316214	Perfluorotridecanoic acid (PFTriA)	147	139	P/P	30 - 160
2316214	Perfluoroundecanoic acid (PFUnA)	96.5	94.6	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314778	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	28.0	Spike	P	0 - 30
2314778	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.83	Spike	P	0 - 30
2314778	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.209	Spike	P	0 - 30
2314778	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	39.0	Spike	F	0 - 30
2314778	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.396	Spike	P	0 - 30
2314778	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	10.1	Spike	P	0 - 30
2314778	Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.80	Spike	P	0 - 30
2314778	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.1	Spike	P	0 - 30
2314778	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	14.4	Spike	P	0 - 30
2314778	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.446	Spike	P	0 - 30
2314778	Perfluoro-1-butane sulfonamide (FBSA)	1.50	Spike	P	0 - 30
2314778	Perfluoro-1-hexane sulfonamide (FHxSA)	1.53	Spike	P	0 - 30
2314778	Perfluoro-1-octane sulfonamide (FOSA)	16.8	Spike	P	0 - 30
2314778	Perfluoro-3-methoxypropanoic acid (PFMPA)	14.3	Spike	P	0 - 30
2314778	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	22.4	Spike	P	0 - 30
2314778	Perfluoro-4-methoxybutanoic acid (PFMBA)	4.33	Spike	P	0 - 30
2314778	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	24.6	Spike	P	0 - 30
2314778	Perfluorobutanesulfonic acid (PFBS)	20.3	Spike	P	0 - 30
2314778	Perfluorobutanoic acid (PFBA)	20.4	Spike	P	0 - 30
2314778	Perfluorodecanesulfonic acid (PFDS)	23.4	Spike	P	0 - 30
2314778	Perfluorodecanoic acid (PFDA)	9.29	Spike	P	0 - 30
2314778	Perfluorododecanoic acid (PFDoA)	1.15	Spike	P	0 - 30
2314778	Perfluoroheptanesulfonic acid (PFHpS)	28.1	Spike	P	0 - 30
2314778	Perfluoroheptanoic acid (PFHpA)	1.51	Spike	P	0 - 30
2314778	Perfluorohexanesulfonic acid (PFHxS)	22.4	Spike	P	0 - 30
2314778	Perfluorohexanoic acid (PFHxA)	15.7	Spike	P	0 - 30
2314778	Perfluorononanesulfonic acid (PFNS)	24.6	Spike	P	0 - 30
2314778	Perfluorononanoic acid (PFNA)	0.811	Spike	P	0 - 30
2314778	Perfluorooctanesulfonic acid (PFOS)	13.7	Spike	P	0 - 30
2314778	Perfluorooctanoic acid (PFOA)	26.4	Spike	P	0 - 30
2314778	Perfluoropentanesulfonic acid (PFPeS)	13.7	Spike	P	0 - 30
2314778	Perfluoropentanoic acid (PFPeA)	8.49	Spike	P	0 - 30
2314778	Perfluoropropanesulfonic acid (PFPrS)	13.0	Spike	P	0 - 30
2314778	Perfluorotetradecanoic acid (PFTeA)	6.07	Spike	P	0 - 30
2314778	Perfluorotridecanoic acid (PFTriA)	4.49	Spike	P	0 - 30
2314778	Perfluoroundecanoic acid (PFUnA)	2.55	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P411876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315804	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.15	Spike	P	0 - 35
2315804	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	19.3	Spike	P	0 - 35
2315804	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	13.0	Spike	P	0 - 35
2315804	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.217	Spike	P	0 - 35
2315804	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.48	Spike	P	0 - 35
2315804	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.76	Spike	P	0 - 35
2315804	Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.50	Spike	P	0 - 35
2315804	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.30	Spike	P	0 - 35
2315804	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	6.55	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315804	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.41	Spike	P	0 - 35
2315804	Perfluoro-1-butane sulfonamide (FBSA)	4.49	Spike	P	0 - 35
2315804	Perfluoro-1-hexane sulfonamide (FHxSA)	13.3	Spike	P	0 - 35
2315804	Perfluoro-1-octane sulfonamide (FOSA)	3.66	Spike	P	0 - 35
2315804	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.23	Spike	P	0 - 35
2315804	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	3.09	Spike	P	0 - 35
2315804	Perfluoro-4-methoxybutanoic acid (PFMBA)	10.6	Spike	P	0 - 35
2315804	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	10.1	Spike	P	0 - 35
2315804	Perfluorobutanesulfonic acid (PFBS)	4.13	Spike	P	0 - 35
2315804	Perfluorobutanoic acid (PFBA)	6.92	Spike	P	0 - 35
2315804	Perfluorodecanesulfonic acid (PFDS)	8.03	Spike	P	0 - 35
2315804	Perfluorodecanoic acid (PFDA)	9.41	Spike	P	0 - 35
2315804	Perfluorododecanoic acid (PFDoA)	1.88	Spike	P	0 - 35
2315804	Perfluoroheptanesulfonic acid (PFHpS)	1.87	Spike	P	0 - 35
2315804	Perfluoroheptanoic acid (PFHpA)	27.3	Spike	P	0 - 35
2315804	Perfluorohexanesulfonic acid (PFHxS)	4.44	Spike	P	0 - 35
2315804	Perfluorohexanoic acid (PFHxA)	0.0200	Spike	P	0 - 35
2315804	Perfluorononanesulfonic acid (PFNS)	2.32	Spike	P	0 - 35
2315804	Perfluorononanoic acid (PFNA)	5.01	Spike	P	0 - 35
2315804	Perfluorooctanesulfonic acid (PFOS)	0.0288	Spike	P	0 - 35
2315804	Perfluorooctanoic acid (PFOA)	7.65	Spike	P	0 - 35
2315804	Perfluoropentanesulfonic acid (PFPeS)	0.506	Spike	P	0 - 35
2315804	Perfluoropentanoic acid (PFPeA)	3.41	Spike	P	0 - 35
2315804	Perfluoropropanesulfonic acid (PFPrS)	0.977	Spike	P	0 - 35
2315804	Perfluorotetradecanoic acid (PFTeA)	1.60	Spike	P	0 - 35
2315804	Perfluorotridecanoic acid (PFTriA)	19.6	Spike	P	0 - 35
2315804	Perfluoroundecanoic acid (PFUnA)	13.4	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P411877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2316240	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	10.5	Spike	P	0 - 30
2316240	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	5.94	Spike	P	0 - 30
2316240	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	15.8	Spike	P	0 - 30
2316240	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	5.29	Spike	P	0 - 30
2316240	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.80	Spike	P	0 - 30
2316240	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.34	Spike	P	0 - 30
2316240	Hexafluoropropylene oxide dimer acid (HFPO-DA)	14.8	Spike	P	0 - 30
2316240	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	23.4	Spike	P	0 - 30
2316240	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.44	Spike	P	0 - 30
2316240	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	6.05	Spike	P	0 - 30
2316240	Perfluoro-1-butane sulfonamide (FBSA)	4.12	Spike	P	0 - 30
2316240	Perfluoro-1-hexane sulfonamide (FHxSA)	13.7	Spike	P	0 - 30
2316240	Perfluoro-1-octane sulfonamide (FOSA)	6.88	Spike	P	0 - 30
2316240	Perfluoro-3-methoxypropanoic acid (PFMPA)	19.5	Spike	P	0 - 30
2316240	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	16.8	Spike	P	0 - 30
2316240	Perfluoro-4-methoxybutanoic acid (PFMBA)	10.4	Spike	P	0 - 30
2316240	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	6.68	Spike	P	0 - 30
2316240	Perfluorobutanesulfonic acid (PFBS)	10.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2316240	Perfluorobutanoic acid (PFBA)	11.5	Spike	P	0 - 30
2316240	Perfluorodecanesulfonic acid (PFDS)	11.8	Spike	P	0 - 30
2316240	Perfluorodecanoic acid (PFDA)	11.1	Spike	P	0 - 30
2316240	Perfluorododecanoic acid (PFDoA)	20.3	Spike	P	0 - 30
2316240	Perfluoroheptanesulfonic acid (PFHpS)	25.3	Spike	P	0 - 30
2316240	Perfluoroheptanoic acid (PFHpA)	9.91	Spike	P	0 - 30
2316240	Perfluorohexanesulfonic acid (PFHxS)	21.7	Spike	P	0 - 30
2316240	Perfluorohexanoic acid (PFHxA)	5.45	Spike	P	0 - 30
2316240	Perfluorononanesulfonic acid (PFNS)	11.0	Spike	P	0 - 30
2316240	Perfluorononanoic acid (PFNA)	18.2	Spike	P	0 - 30
2316240	Perfluorooctanesulfonic acid (PFOS)	14.8	Spike	P	0 - 30
2316240	Perfluorooctanoic acid (PFOA)	13.5	Spike	P	0 - 30
2316240	Perfluoropentanesulfonic acid (PFPeS)	2.34	Spike	P	0 - 30
2316240	Perfluoropentanoic acid (PFPeA)	4.69	Spike	P	0 - 30
2316240	Perfluoropropanesulfonic acid (PFPrS)	11.0	Spike	P	0 - 30
2316240	Perfluorotetradecanoic acid (PFTeA)	3.88	Spike	P	0 - 30
2316240	Perfluorotridecanoic acid (PFTriA)	10.3	Spike	P	0 - 30
2316240	Perfluoroundecanoic acid (PFUnA)	11.2	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P411878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2316214	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.92	Spike	P	0 - 30
2316214	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	28.3	Spike	P	0 - 30
2316214	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	20.6	Spike	P	0 - 30
2316214	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.09	Spike	P	0 - 30
2316214	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.12	Spike	P	0 - 30
2316214	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.59	Spike	P	0 - 30
2316214	Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.12	Spike	P	0 - 30
2316214	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16.8	Spike	P	0 - 30
2316214	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.65	Spike	P	0 - 30
2316214	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	18.8	Spike	P	0 - 30
2316214	Perfluoro-1-butane sulfonamide (FBSA)	3.30	Spike	P	0 - 30
2316214	Perfluoro-1-hexane sulfonamide (FHxSA)	12.0	Spike	P	0 - 30
2316214	Perfluoro-1-octane sulfonamide (FOSA)	4.90	Spike	P	0 - 30
2316214	Perfluoro-3-methoxypropanoic acid (PFMPA)	6.11	Spike	P	0 - 30
2316214	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	10.5	Spike	P	0 - 30
2316214	Perfluoro-4-methoxybutanoic acid (PFMBA)	8.26	Spike	P	0 - 30
2316214	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.103	Spike	P	0 - 30
2316214	Perfluorobutanesulfonic acid (PFBS)	3.90	Spike	P	0 - 30
2316214	Perfluorobutanoic acid (PFBA)	2.08	Spike	P	0 - 30
2316214	Perfluorodecanesulfonic acid (PFDS)	5.88	Spike	P	0 - 30
2316214	Perfluorodecanoic acid (PFDA)	0.644	Spike	P	0 - 30
2316214	Perfluorododecanoic acid (PFDoA)	13.7	Spike	P	0 - 30
2316214	Perfluoroheptanesulfonic acid (PFHpS)	14.2	Spike	P	0 - 30
2316214	Perfluoroheptanoic acid (PFHpA)	8.58	Spike	P	0 - 30
2316214	Perfluorohexanesulfonic acid (PFHxS)	6.74	Spike	P	0 - 30
2316214	Perfluorohexanoic acid (PFHxA)	1.36	Spike	P	0 - 30
2316214	Perfluorononanesulfonic acid (PFNS)	1.54	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3
Batch ID: P411878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2316214	Perfluorononanoic acid (PFNA)	17.0	Spike	P	0 - 30
2316214	Perfluorooctanesulfonic acid (PFOS)	12.1	Spike	P	0 - 30
2316214	Perfluorooctanoic acid (PFOA)	7.09	Spike	P	0 - 30
2316214	Perfluoropentanesulfonic acid (PFPeS)	2.44	Spike	P	0 - 30
2316214	Perfluoropentanoic acid (PFPeA)	3.38	Spike	P	0 - 30
2316214	Perfluoropropanesulfonic acid (PFPrS)	2.05	Spike	P	0 - 30
2316214	Perfluorotetradecanoic acid (PFTeA)	3.71	Spike	P	0 - 30
2316214	Perfluorotridecanoic acid (PFTriA)	5.25	Spike	P	0 - 30
2316214	Perfluoroundecanoic acid (PFUnA)	2.02	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2315769
Field Sample ID: SP-27 (36-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	75.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	97.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.8	P	30 - 160

Lab Sample ID: 2315770
Field Sample ID: SP-27 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	95.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	141	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.2	P	30 - 160

Lab Sample ID: 2315771
Field Sample ID: SP-27 (46-50)_Dup

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	80.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	97.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.8	P	30 - 160

Lab Sample ID: 2315772
Field Sample ID: SP-27 (66-70)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	136	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	99.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	136	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	106	P	30 - 160

Lab Sample ID: 2315773
Field Sample ID: SP-27 (74-78)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	75.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	129	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.3	P	30 - 160

Lab Sample ID: 2315774
Field Sample ID: SP-28 (41-45)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	138	P	30 - 160

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Lab Sample ID: 2315774
Field Sample ID: SP-28 (41-45)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.4	P	30 - 160

Lab Sample ID: 2315775
Field Sample ID: SP-28 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	95.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.5	P	30 - 160

Lab Sample ID: 2315776
Field Sample ID: SP-28 (66-70)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	111	P	30 - 160

Lab Sample ID: 2315777
Field Sample ID: SP-28 (86-90)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.1	P	30 - 160

Lab Sample ID: 2315778
Field Sample ID: SP-26 (36-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.5	P	30 - 160

Lab Sample ID: 2315779
Field Sample ID: SP-26 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	116	P	30 - 160

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Lab Sample ID: 2315779
Field Sample ID: SP-26 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.7	P	30 - 160

Lab Sample ID: 2315780
Field Sample ID: FRB-8

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	77.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	97.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.2	P	30 - 160

Lab Sample ID: 2315781
Field Sample ID: EQB-44

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	93.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.7	P	30 - 160

Lab Sample ID: 2315804
Field Sample ID: Sed-1 (0-1)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	71.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	122	P	30 - 160

Lab Sample ID: 2315805
Field Sample ID: Sed-2 (0-1)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	86.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	117	P	30 - 160

Lab Sample ID: 2315806
Field Sample ID: Sed-3 (0-1)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	74.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	113	P	30 - 160

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Lab Sample ID: 2315807
Field Sample ID: SB-75 (0-0.5)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	68.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2315808
Field Sample ID: SB-75 (0.5-2)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	143	P	30 - 160

Lab Sample ID: 2315809
Field Sample ID: SB-75 (2-4)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	137	P	30 - 160

Lab Sample ID: 2315810
Field Sample ID: SB-76 (0-0.5)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	95.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	95.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	98.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.1	P	30 - 160

Lab Sample ID: 2315811
Field Sample ID: SB-76 (0.5-2)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	97.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	118	P	30 - 160

Lab Sample ID: 2315812
Field Sample ID: SB-76 (2-4)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160

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Lab Sample ID: 2315812
Field Sample ID: SB-76 (2-4)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	115	P	30 - 160

Lab Sample ID: 2315813
Field Sample ID: SB-77 (0-0.5)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	83.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	106	P	30 - 160

Lab Sample ID: 2315814
Field Sample ID: SB-77 (0.5-2)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	137	P	30 - 160

Lab Sample ID: 2315815
Field Sample ID: SB-77 (2-4)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	84.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	113	P	30 - 160

Lab Sample ID: 2315816
Field Sample ID: SW-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	89.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	131	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.9	P	30 - 160

Lab Sample ID: 2315817
Field Sample ID: SW-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	111	P	30 - 160

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Lab Sample ID: 2315817
Field Sample ID: SW-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	93.1	P	30 - 160

Lab Sample ID: 2315818
Field Sample ID: SW-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	66.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	81.8	P	30 - 160

Lab Sample ID: 2315819
Field Sample ID: DEPMW-1 (100-120)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	76.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	155	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.7	P	30 - 160

Lab Sample ID: 2315820
Field Sample ID: DEPMW-2 (25-45)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	67.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.0	P	30 - 160

Lab Sample ID: 2315821
Field Sample ID: DEPMW-3 (100-120)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	139	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.5	P	30 - 160

Lab Sample ID: 2315822
Field Sample ID: DEPMW-4 (25-45)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.4	P	30 - 160

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Lab Sample ID: 2315823
Field Sample ID: DEPMW-5 (100-120)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.6	P	30 - 160

Lab Sample ID: 2315824
Field Sample ID: DEPMW-6 (25-45)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	145	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	137	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.2	P	30 - 160

Lab Sample ID: 2315825
Field Sample ID: DEPMW-6 (25-45)_Dup

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	77.9	P	30 - 160

Lab Sample ID: 2315826
Field Sample ID: DEPMW-7 (100-120)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	140	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.6	P	30 - 160

Lab Sample ID: 2315827
Field Sample ID: DEPMW-8 (20-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	70.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.5	P	30 - 160

Lab Sample ID: 2315828
Field Sample ID: VISAMW (M-200)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	63.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.2	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2315828
Field Sample ID: VISAMW (M-200)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	72.2	P	30 - 160

Lab Sample ID: 2315829
Field Sample ID: FRB-9

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	86.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.5	P	30 - 160

Lab Sample ID: 2315830
Field Sample ID: EQB-49

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.1	P	30 - 160

Lab Sample ID: 2315831
Field Sample ID: EQB-50

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	81.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.6	P	30 - 160

Lab Sample ID: 2315832
Field Sample ID: EQB-50

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.1	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111352

Included Lab Sample IDs: 2315769, 2315770, 2315771, 2315772, 2315773, 2315774, 2315775, 2315776

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	110	102	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	136	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	112	103	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.6	89.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102	95.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	72.7	86.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	85.4	115	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.6	103	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	154	148	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158	148	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	123	121	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	126	112	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	77.4	77.5	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	92.0	103	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	106	96.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	128	140	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	104	89.3	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	114	94.6	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	121	139	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	149	153	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	132	142	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	150	143	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	107	110	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	112	119	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	103	102	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.5	89.8	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	103	103	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	111	102	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	68.4	78.8	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	85.8	81.9	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	103	102	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.5	101	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	110	116	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	117	113	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	107	103	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	99.7	96.9	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	101	96.9	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	107	108	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	102	110	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	105	100	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	106	111	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	111	88.9	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	104	106	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	114	141	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	61.0	70.6	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	69.3	69.0	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	102	92.2	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	129	122	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	109	97.4	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.1	102	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	108	103	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111352

Included Lab Sample IDs: 2315769, 2315770, 2315771, 2315772, 2315773, 2315774, 2315775, 2315776

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorohexanoic acid (PFHxA)	90.1	90.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	102	95.3	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	103	96.5	P/P	60 - 160
Perfluorononanoic acid (PFNA)	104	88.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	78.1	94.2	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	115	108	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	117	102	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	125	113	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	133	100	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	102	108	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	112	108	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	117	123	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	98.0	109	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	127	95.4	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	92.7	97.8	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	117	116	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	128	121	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	140	147	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	140	119	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	103	84.1	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	141	94.9	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A111400

Included Lab Sample IDs: 2315777, 2315778, 2315779, 2315780, 2315781, 2315816, 2315817, 2315818, 2315819, 2315820, 2315821, 2315822, 2315823, 2315824, 2315825, 2315826, 2315827, 2315828, 2315829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	112	124	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	124	121	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	142	112	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	106	103	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	84.3	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.7	84.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	104	112	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	112	111	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	86.9	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	96.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	113	108	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.5	113	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	116	126	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	126	129	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	129	118	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105	125	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	125	119	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	143	105	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.6	90.1	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.8	75.5	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	90.1	87.8	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	120	141	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	141	93.4	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111400

Included Lab Sample IDs: 2315777, 2315778, 2315779, 2315780, 2315781, 2315816, 2315817, 2315818, 2315819, 2315820, 2315821, 2315822, 2315823, 2315824, 2315825, 2315826, 2315827, 2315828, 2315829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	93.4	126	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	121	137	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	121	121	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	137	102	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	127	150	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	150	158	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	158	121	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	116	153	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	153	154	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	154	135	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	110	127	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	127	128	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	128	126	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	97.5	99.7	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.2	92.0	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.7	99.2	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	104	111	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	112	104	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	143	112	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.5	90.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	87.3	84.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	90.3	90.3	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	108	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	120	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	61.5	120	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	109	122	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	119	109	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	84.0	119	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	92.4	95.0	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	94.2	99.1	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	95.0	94.2	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	126	97.2	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	97.2	98.4	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	98.4	94.7	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	111	107	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	116	97.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	97.3	111	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	114	116	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	114	143	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	143	114	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	127	131	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	131	133	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	137	127	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	72.4	81.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	74.7	77.6	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	81.4	74.7	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	103	98.1	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	139	122	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	98.1	139	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	100	113	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111400

Included Lab Sample IDs: 2315777, 2315778, 2315779, 2315780, 2315781, 2315816, 2315817, 2315818, 2315819, 2315820, 2315821, 2315822, 2315823, 2315824, 2315825, 2315826, 2315827, 2315828, 2315829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorohexanesulfonic acid (PFHxS)	105	111	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	113	105	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	105	88.7	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	71.6	95.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	95.3	105	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	102	95.2	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	126	90.6	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	90.6	102	P/P	60 - 160
Perfluorononanoic acid (PFNA)	112	101	P/P	60 - 160
Perfluorononanoic acid (PFNA)	86.7	98.0	P/P	60 - 160
Perfluorononanoic acid (PFNA)	98.0	112	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	109	117	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	115	102	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	117	115	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	134	109	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	112	113	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	113	120	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	117	112	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	113	118	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	118	119	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	83.0	113	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	104	111	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	110	109	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	111	110	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	101	67.4	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	158	101	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	67.4	77.8	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	118	146	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	146	145	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	146	118	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	133	138	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	144	133	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	159	144	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	103	138	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	133	144	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	138	133	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A111403

Included Lab Sample IDs: 2315827, 2315830, 2315831, 2315832

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	113	117	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.4	85.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	87.8	90.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	116	101	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	143	148	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	115	115	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.5	103	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	131	115	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111403

Included Lab Sample IDs: 2315827, 2315830, 2315831, 2315832

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.8	114	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	127	115	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	131	145	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	118	127	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	127	133	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	96.8	95.6	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	90.9	104	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	80.9	81.2	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	66.8	107	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	115	105	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	104	94.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	94.6	99.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	117	116	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	132	71.8	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	90.1	152	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	72.3	72.2	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	104	80.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	107	109	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	109	103	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	87.4	92.3	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	111	101	P/P	60 - 160
Perfluorononanoic acid (PFNA)	101	100	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	125	125	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	125	121	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	134	114	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	120	111	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	61.6	104	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	133	93.9	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	106	137	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	132	160	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	91.0	117	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A111667

Included Lab Sample IDs: 2315804, 2315805, 2315806, 2315807, 2315808, 2315809, 2315810, 2315811, 2315812, 2315813, 2315814, 2315815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	126	130	P/P	60 - 160
11-Chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	130	126	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	111	74.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	74.9	158	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	126	82.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	79.5	126	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	111	120	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	120	102	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	139	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	136	120	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	115	117	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	117	112	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	143	103	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	85.5	143	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111667

Included Lab Sample IDs: 2315804, 2315805, 2315806, 2315807, 2315808, 2315809, 2315810, 2315811, 2315812, 2315813, 2315814, 2315815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	109	82.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	119	109	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	101	84.8	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	84.8	90.7	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	100	150	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	150	121	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	111	96.5	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	96.5	100	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	110	84.1	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	84.1	82.0	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	115	95.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.9	107	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	123	110	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	91.2	123	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	101	113	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	97.1	101	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	113	104	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	94.3	113	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	102	103	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	103	100	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	101	94.6	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	103	101	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	110	110	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	112	110	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	119	123	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	123	114	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	142	95.5	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	95.5	68.1	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	100	109	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	109	117	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	102	116	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	116	115	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	114	109	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	143	114	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	103	109	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	97.9	103	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	73.3	99.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	82.8	73.3	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	102	115	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	115	115	P/P	60 - 160
Perfluorononanoic acid (PFNA)	130	93.6	P/P	60 - 160
Perfluorononanoic acid (PFNA)	93.6	105	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	105	112	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	112	102	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	106	135	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	93.3	106	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	104	107	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	107	101	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	118	122	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	122	93.3	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	71.5	73.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111667

Included Lab Sample IDs: 2315804, 2315805, 2315806, 2315807, 2315808, 2315809, 2315810, 2315811, 2315812, 2315813, 2315814, 2315815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropropanesulfonic acid (PFPrS)	73.1	101	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	103	94.0	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	103	103	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	109	109	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	91.0	109	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	102	95.6	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	95.6	94.8	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
				LCS			
DEP SOP: LC-001-3	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	93.9		97.2	73.3		28.0
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	142		126	123		2.15
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	93.1		68.3	61.4		10.5
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	104		61.9	66.3		6.92
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.8		109	99.6		8.83
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	127		120	99.1		19.3
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	116		110	104		5.94
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	103		81.7	109		28.3
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102		95.4	95.6		0.209
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102		81.3	92.6		13.0
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	75.2		105	89.3		15.8
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	91.4		92.3	113		20.6
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.5		130	87.8		39.0
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	132		97.8	97.6		0.217
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.9					5.29
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106		107	118		9.09
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153		152	151		0.396
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	99.6		139	143		2.48
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	107		123	136		9.80
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	140		133	144		8.12
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	104		120	108		10.1
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	133		125	118		5.76
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	116		110	104		5.34
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	114		111	118		5.59
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	107		85.4	81.4		4.80
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	139		138	129		6.50
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	91.7		80.8	69.7		14.8
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	84.2		82.2	76.5		7.12
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	111		128	107		18.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
DEP SOP: LC-001-3	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	81.7	123	135		9.30
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	119	102	129		23.4
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	92.6	85.4	101		16.8
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	84.2	98.4	114		14.4
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.3	86.4	92.3		6.55
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	101	111	114		2.44
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	117	118	113		3.65
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	113	135	134		0.446
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	145	135	145		7.41
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	148	127	119		6.05
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	84.1	81.1	97.9		18.8
	Perfluoro-1-butane sulfonamide (FBSA)	152	127	124		1.50
	Perfluoro-1-butane sulfonamide (FBSA)	110	116	121		4.49
	Perfluoro-1-butane sulfonamide (FBSA)	121	156	149		4.12
	Perfluoro-1-butane sulfonamide (FBSA)	154	130	134		3.30
	Perfluoro-1-hexane sulfonamide (FHxSA)	157	138	136		1.53
	Perfluoro-1-hexane sulfonamide (FHxSA)	99.1	88.1	101		13.3
	Perfluoro-1-hexane sulfonamide (FHxSA)	112	135	109		13.7
	Perfluoro-1-hexane sulfonamide (FHxSA)	142	130	146		12.0
	Perfluoro-1-octane sulfonamide (FOSA)	99.5	112	94.7		16.8
	Perfluoro-1-octane sulfonamide (FOSA)	110	113	108		3.66
	Perfluoro-1-octane sulfonamide (FOSA)	94.0	99.8	93.2		6.88
	Perfluoro-1-octane sulfonamide (FOSA)	88.1	97.9	103		4.90
	Perfluoro-3-methoxypropanoic acid (PFMPA)	105	123	106		14.3
	Perfluoro-3-methoxypropanoic acid (PFMPA)	112	114	111		3.23
	Perfluoro-3-methoxypropanoic acid (PFMPA)	97.6	111	91.4		19.5
	Perfluoro-3-methoxypropanoic acid (PFMPA)	99.2	110	116		6.11

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
				LCS			
DEP SOP: LC-001-3	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.2		91.2	72.8		22.4
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	112		107	111		3.09
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.2		93.6	79.0		16.8
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	76.6		74.0	82.2		10.5
	Perfluoro-4-methoxybutanoic acid (PFMBA)	101		111	106		4.33
	Perfluoro-4-methoxybutanoic acid (PFMBA)	98.8		83.5	92.8		10.6
	Perfluoro-4-methoxybutanoic acid (PFMBA)	108		110	122		10.4
	Perfluoro-4-methoxybutanoic acid (PFMBA)	109		99.0	107		8.26
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	118		135	106		24.6
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	110		110	99.2		10.1
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	122		113	106		6.68
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	115		118	118		0.103
	Perfluorobutanesulfonic acid (PFBS)	104		136	89.8		20.3
	Perfluorobutanesulfonic acid (PFBS)	109		101	96.6		4.13
	Perfluorobutanesulfonic acid (PFBS)	98.8		108	90.5		10.4
	Perfluorobutanesulfonic acid (PFBS)	94.5		96.6	90.0		3.90
	Perfluorobutanoic acid (PFBA)	93.5		122	85.6		20.4
	Perfluorobutanoic acid (PFBA)	128		116	124		6.92
	Perfluorobutanoic acid (PFBA)	92.0		122	96.8		11.5
	Perfluorobutanoic acid (PFBA)	109		119	122		2.08
	Perfluorodecanesulfonic acid (PFDS)	92.2		84.6	66.9		23.4
	Perfluorodecanesulfonic acid (PFDS)	119		125	115		8.03
	Perfluorodecanesulfonic acid (PFDS)	94.8		81.6	72.5		11.8
	Perfluorodecanesulfonic acid (PFDS)	101		62.4	66.2		5.88
	Perfluorodecanoic acid (PFDA)	97.8		134	122		9.29
	Perfluorodecanoic acid (PFDA)	133		114	125		9.41
	Perfluorodecanoic acid (PFDA)	114		115	103		11.1
	Perfluorodecanoic acid (PFDA)	116		114	114		0.644
	Perfluorododecanoic acid (PFDoA)	132		122	123		1.15
	Perfluorododecanoic acid (PFDoA)	126		151	154		1.88
	Perfluorododecanoic acid (PFDoA)	119		136	111		20.3
	Perfluorododecanoic acid (PFDoA)	106		109	95.3		13.7
	Perfluoroheptanesulfonic acid (PFHpS)	71.9		83.2	62.7		28.1
	Perfluoroheptanesulfonic acid (PFHpS)	123		124	126		1.87
	Perfluoroheptanesulfonic acid (PFHpS)	71.3		85.1	66.0		25.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
DEP SOP: LC-001-3	Perfluoroheptanesulfonic acid (PFHpS)	68.7	66.8	77.0		14.2
	Perfluoroheptanoic acid (PFHpA)	81.2	114	116		1.51
	Perfluoroheptanoic acid (PFHpA)	127	92.4	122		27.3
	Perfluoroheptanoic acid (PFHpA)	121	113	90.8		9.91
	Perfluoroheptanoic acid (PFHpA)	114	109	118		8.58
	Perfluorohexanesulfonic acid (PFHxS)	91.7	124	88.5		22.4
	Perfluorohexanesulfonic acid (PFHxS)	104	108	113		4.44
	Perfluorohexanesulfonic acid (PFHxS)	92.3	117	66.4		21.7
	Perfluorohexanesulfonic acid (PFHxS)	88.1	85.2	93.8		6.74
	Perfluorohexanoic acid (PFHxA)	93.7	136	113		15.7
	Perfluorohexanoic acid (PFHxA)	125	105	105		0.0200
	Perfluorohexanoic acid (PFHxA)	82.9	136	118		5.45
	Perfluorohexanoic acid (PFHxA)	67.1	72.4	73.4		1.36
	Perfluorononanesulfonic acid (PFNS)	92.9	95.1	74.3		24.6
	Perfluorononanesulfonic acid (PFNS)	113	113	111		2.32
	Perfluorononanesulfonic acid (PFNS)	90.1	94.7	84.8		11.0
	Perfluorononanesulfonic acid (PFNS)	91.7	82.0	83.3		1.54
	Perfluorononanoic acid (PFNA)	115	98.2	99.0		0.811
	Perfluorononanoic acid (PFNA)	103	133	139		5.01
	Perfluorononanoic acid (PFNA)	96.8	99.3	78.4		18.2
	Perfluorononanoic acid (PFNA)	133	102	121		17.0
	Perfluorooctanesulfonic acid (PFOS)	112				13.7
	Perfluorooctanesulfonic acid (PFOS)	129	125	125		0.0288
	Perfluorooctanesulfonic acid (PFOS)	124				14.8
	Perfluorooctanesulfonic acid (PFOS)	115				12.1
	Perfluorooctanoic acid (PFOA)	138	146	102		26.4
	Perfluorooctanoic acid (PFOA)	117	127	117		7.65
	Perfluorooctanoic acid (PFOA)	122	135	107		13.5
	Perfluorooctanoic acid (PFOA)	70.8	114	125		7.09
	Perfluoropentanesulfonic acid (PFPeS)	113	124	107		13.7
	Perfluoropentanesulfonic acid (PFPeS)	120	103	102		0.506
	Perfluoropentanesulfonic acid (PFPeS)	117	97.8	95.2		2.34
	Perfluoropentanesulfonic acid (PFPeS)	115	116	119		2.44
	Perfluoropentanoic acid (PFPeA)	100	111	125		8.49
Perfluoropentanoic acid (PFPeA)	95.6	127	123		3.41	
Perfluoropentanoic acid (PFPeA)	107				4.69	
Perfluoropentanoic acid (PFPeA)	97.1	121	117		3.38	
Perfluoropropanesulfonic acid (PFPrS)	103	90.7	103		13.0	
Perfluoropropanesulfonic acid (PFPrS)	112	107	108		0.977	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	98.0	85.4	95.4		11.0
	Perfluoropropanesulfonic acid (PFPrS)	96.1	90.5	92.4		2.05
	Perfluorotetradecanoic acid (PFTeA)	152	132	124		6.07
	Perfluorotetradecanoic acid (PFTeA)	114	121	119		1.60
	Perfluorotetradecanoic acid (PFTeA)	153	139	133		3.88
	Perfluorotetradecanoic acid (PFTeA)	111	127	122		3.71
	Perfluorotridecanoic acid (PFTriA)	119	139	146		4.49
	Perfluorotridecanoic acid (PFTriA)	115	149	123		19.6
	Perfluorotridecanoic acid (PFTriA)	158	140	155		10.3
	Perfluorotridecanoic acid (PFTriA)	147	147	139		5.25
	Perfluoroundecanoic acid (PFUnA)	98.2	151	155		2.55
	Perfluoroundecanoic acid (PFUnA)	85.4	102	117		13.4
	Perfluoroundecanoic acid (PFUnA)	135	126	113		11.2
	Perfluoroundecanoic acid (PFUnA)	103	96.5	94.6		2.02

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in sediment/solid matrices by HPLC/MS/MS	2315804, 2315805, 2315806, 2315807, 2315808, 2315809, 2315810, 2315811, 2315812, 2315813, 2315814, 2315815
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2315769, 2315770, 2315771, 2315772, 2315773, 2315774, 2315775, 2315776, 2315777, 2315778, 2315779, 2315780, 2315781, 2315816, 2315817, 2315818, 2315819, 2315820, 2315821, 2315822, 2315823, 2315824, 2315825, 2315826, 2315827, 2315828, 2315829, 2315830, 2315831, 2315832
SM 2540 G (20th)	Percent solid determination before the other sample preparations.	2315836, 2315837, 2315838, 2315839, 2315840, 2315841, 2315842, 2315843, 2315844, 2315845, 2315846, 2315847

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	03/31/2022	04/05/2022 09:00	Hoor Shaik	04/06/2022 09:18	Mohammad Ghaffari	2315770
	03/31/2022	04/05/2022 09:00	Hoor Shaik	04/06/2022 09:29	Mohammad Ghaffari	2315771
	03/31/2022	04/05/2022 09:00	Hoor Shaik	04/06/2022 11:49	Mohammad Ghaffari	2315769
	03/31/2022	04/05/2022 09:00	Hoor Shaik	04/06/2022 12:00	Mohammad Ghaffari	2315772
	03/31/2022	04/05/2022 09:00	Hoor Shaik	04/06/2022 12:11	Mohammad Ghaffari	2315773
	03/31/2022	04/05/2022 09:00	Hoor Shaik	04/06/2022 12:22	Mohammad Ghaffari	2315774
	03/31/2022	04/05/2022 09:00	Hoor Shaik	04/06/2022 12:33	Mohammad Ghaffari	2315775
	03/31/2022	04/05/2022 09:00	Hoor Shaik	04/06/2022 12:43	Mohammad Ghaffari	2315776
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 08:47	Mohammad Ghaffari	2315780
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 08:58	Mohammad Ghaffari	2315781
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 09:09	Mohammad Ghaffari	2315829
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 10:13	Mohammad Ghaffari	2315824
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 10:24	Mohammad Ghaffari	2315825
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 10:35	Mohammad Ghaffari	2315777
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 10:46	Mohammad Ghaffari	2315778
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 10:57	Mohammad Ghaffari	2315779
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 11:07	Mohammad Ghaffari	2315816
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 11:18	Mohammad Ghaffari	2315817
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 11:29	Mohammad Ghaffari	2315818
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 11:51	Mohammad Ghaffari	2315819
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 12:01	Mohammad Ghaffari	2315820
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 12:12	Mohammad Ghaffari	2315821
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 12:23	Mohammad Ghaffari	2315822
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 12:34	Mohammad Ghaffari	2315823
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 13:18	Mohammad Ghaffari	2315826
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 13:29	Mohammad Ghaffari	2315827
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 13:40	Mohammad Ghaffari	2315828
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 15:17	Mohammad Ghaffari	2315824
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 15:28	Mohammad Ghaffari	2315825
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 15:38	Mohammad Ghaffari	2315778
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/08/2022 15:49	Mohammad Ghaffari	2315779
	03/31/2022	04/07/2022 09:00	Hoor Shaik	04/10/2022 15:52	Mohammad Ghaffari	2315827
	03/31/2022	04/08/2022 09:00	Hoor Shaik	04/10/2022 14:26	Mohammad Ghaffari	2315830
	03/31/2022	04/08/2022 09:00	Hoor Shaik	04/10/2022 14:37	Mohammad Ghaffari	2315831
	03/31/2022	04/08/2022 09:00	Hoor Shaik	04/10/2022 14:48	Mohammad Ghaffari	2315832
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 01:10	Umesh Chiluwal	2315813
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 01:21	Umesh Chiluwal	2315814
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 01:32	Umesh Chiluwal	2315815
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 11:22	Umesh Chiluwal	2315804
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 11:33	Umesh Chiluwal	2315805

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 11:44	Umesh Chiluwal	2315806
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 11:55	Umesh Chiluwal	2315807
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 12:16	Umesh Chiluwal	2315808
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 12:27	Umesh Chiluwal	2315809
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 12:38	Umesh Chiluwal	2315810
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 12:49	Umesh Chiluwal	2315811
	03/31/2022	04/18/2022 12:00	Umesh Chiluwal	04/21/2022 12:59	Umesh Chiluwal	2315812

Chemical Analysis Report

SIS-2022-04-05-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

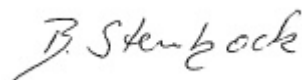
Event Description: **Former Florida State Fire College Site Wide Soil and GW Investigation**
Request ID: **RQ-2022-03-28-05**
Customer: **SIS**
Project ID: **SIS-PFAS**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: Robert Cilek

For additional information please contact
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Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 28-APR-2022 11:26



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/29/2022 16:55

Field ID: SP-26 (66-70')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316746	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	19		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	33		ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	7.9	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	4.0	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	68		ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	290		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	77		ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	35		ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	57		ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	1.7E+03		ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	73		ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	4.0	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	4.0	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	4.0	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	17		ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	13		ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.79	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.79	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.79	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	14		ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	110		ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.79	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	4.0	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	4.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	4.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	150		ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	180		ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.6	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.6	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	7.9	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	7.9	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	7.9	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	7.9	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	7.9	U	ng/L	P411983	

Field ID: SP-26 (66-70')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316746	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	7.9	U	ng/L	P411983	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	16	U	ng/L	P411983	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/30/2022 10:25

Field ID: SP-26 (86-90')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316747	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	9.1		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	13	I	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	23		ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	92		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	25		ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	3.6	I	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	22		ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	180		ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	31		ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	11		ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	4.1		ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	6.5		ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	16		ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	31	I	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	3.2	I	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.81	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.81	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.1	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411983	

Field ID: SP-26 (86-90')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316747	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.1	U	ng/L	P411983	

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/30/2022 13:55

Field ID: SP-29 (36-40')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316748	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.9		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	5.1		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	4.0	I	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	5.8	I	ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	1.6		ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411983	

Field ID: SP-29 (36-40')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316748	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411983	

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/30/2022 14:10

Field ID: SP-29 (46-50')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316749	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	14		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	5.8	I	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	5.1	I	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	41		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	12		ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	5.3	I	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	54		ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	14		ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	7.4		ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	2.4	I	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411983	

Field ID: SP-29 (46-50')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316749	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411983	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P411983	

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/30/2022 14:50

Field ID: SP-29 (66-70')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316750	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	15		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	4.8	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.8	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.4	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	7.3	I	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	48		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	13		ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.4	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	8.0	I	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	58		ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	13		ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.4	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.4	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.4	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	7.2		ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	I	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.48	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.48	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.48	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	2.9	I	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.96	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.48	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.4	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.4	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.4	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	19	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.4	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.96	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.96	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.8	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.8	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.8	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.8	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.8	U	ng/L	P411983	

Field ID: SP-29 (66-70')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316750	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.8	U	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.6	U	ng/L	P411983	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/31/2022 09:10

Field ID: Irrigation Well (105-140')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316751	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	13		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	7.7	I	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	9.7		ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	60		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	17		ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	7.3	I	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	82		ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	28		ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	8.6		ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	8.0		ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411983	

Field ID: Irrigation Well (105-140')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316751	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411983	
		Nonafluoro-3,6-dioxheptanoic acid (NFDHA)**	8.0	U	ng/L	P411983	

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/31/2022 11:15

Field ID: SP-30 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316752	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.1	I	ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	5.4	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	5.4	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.7	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	2.7	U	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	1.1	U	ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	2.7	U	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.7	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	2.7	U	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	4.9	I	ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	2.7	U	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.7	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.7	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.7	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	0.54	U	ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.54	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.54	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.54	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.1	U	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.1	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.54	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.7	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.7	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.7	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	22	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.7	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.1	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.1	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	5.4	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	5.4	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	5.4	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	5.4	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	5.4	U	ng/L	P411983	

Field ID: SP-30 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316752	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	5.4	U	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	11	U	ng/L	P411983	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/31/2022 11:35

Field ID: SP-30 (46-50')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316753	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.4		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	12		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	2.7	I	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	13		ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	1.8		ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.84	I	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411983	

Field ID: SP-30 (46-50')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316753	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	8.5	I	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411983	

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/31/2022 11:50

Field ID: SP-30 (66-70')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316754	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.43	U	ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	4.3	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	0.85	U	ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	2.1	U	ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	0.43	U	ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.85	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.85	U	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.85	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.43	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.85	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.85	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.3	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P411983	

Field ID: SP-30 (66-70')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316754	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.3	U	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.5	U	ng/L	P411983	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/31/2022 11:50

Field ID: SP-30 (66-70') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316755	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.43	U	ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	4.3	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	0.85	U	ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	2.1	U	ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	0.43	U	ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.85	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.85	U	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.85	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.43	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.85	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.85	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.3	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P411983	

Field ID: SP-30 (66-70') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316755	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.3	U	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.5	U	ng/L	P411983	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/31/2022 12:15

Field ID: SP-30 (86-90')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316756	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.5		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	5.6	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	5.6	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.8	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	2.8	U	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	16		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	2.8	U	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.8	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	2.8	U	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	20		ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	2.8	U	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.8	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.8	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.8	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	2.9		ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.56	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.56	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.56	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.5	I	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.1	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.56	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.8	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.8	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.8	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	22	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.8	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.1	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.1	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	5.6	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	5.6	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	5.6	UJ	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	5.6	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	5.6	U	ng/L	P411983	

Field ID: SP-30 (86-90')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316756	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	5.6	U	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	11	U	ng/L	P411983	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 03/31/2022 14:40

Field ID: EQB-45

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316761	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411878	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411878	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411878	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411878	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411878	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411878	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411878	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411878	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411878	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411878	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411878	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411878	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411878	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411878	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411878	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411878	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411878	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411878	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411878	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411878	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411878	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411878	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411878	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411878	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411878	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411878	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411878	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411878	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411878	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411878	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411878	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411878	

Field ID: EQB-45

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316761	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411878	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411878	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 04/01/2022 09:25

Field ID: SP-31 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316757	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	6.1		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	7.0	I	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	21		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	6.9	I	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	7.3	I	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	60		ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	7.8	I	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	2.4		ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411983	

Field ID: SP-31 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316757	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.6	I	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411983	

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 04/01/2022 09:40

Field ID: SP-31 (46-50')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316758	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.0	I	ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	4.1	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	1.9	I	ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	4.1	I	ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	0.41	U	ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.81	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.81	U	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.81	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.81	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.81	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.1	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411983	

Field ID: SP-31 (46-50')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316758	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.1	U	ng/L	P411983	

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 04/01/2022 10:10

Field ID: SP-31 (66-70')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316759	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.2	I	ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	1.5	I	ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	4.8	I	ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	0.42	U	ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.85	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.85	U	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.85	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P411983	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.85	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.85	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.2	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P411983	

Field ID: SP-31 (66-70')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316759	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P411983	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.5	U	ng/L	P411983	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Former Florida State Fire College (FFSFC)

Collection Date/Time: 04/01/2022 10:50

Field ID: SP-31 (82-86')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316760	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	5.6		ng/L	P411983	
		Perfluorobutanoic acid (PFBA)**	6.0	U	ng/L	P411983	
		Perfluorodecanoic acid (PFDA)**	6.0	U	ng/L	P411983	
		Perfluorododecanoic acid (PFDoA)**	3.0	U	ng/L	P411983	
		Perfluoroheptanoic acid (PFHpA)**	3.0	U	ng/L	P411983	
		Perfluorohexanesulfonic acid (PFHxS)**	15		ng/L	P411983	
		Perfluorohexanoic acid (PFHxA)**	3.0	U	ng/L	P411983	
		Perfluorononanoic acid (PFNA)**	3.0	U	ng/L	P411983	
		Perfluorooctanoic acid (PFOA)**	3.0	U	ng/L	P411983	
		Perfluorooctanesulfonic acid (PFOS)**	38		ng/L	P411983	
		Perfluoropentanoic acid (PFPeA)**	3.0	U	ng/L	P411983	
		Perfluorotetradecanoic acid (PFTeA)**	3.0	U	ng/L	P411983	
		Perfluorotridecanoic acid (PFTriA)**	3.0	U	ng/L	P411983	
		Perfluoroundecanoic acid (PFUnA)**	3.0	U	ng/L	P411983	
		Perfluoropentanesulfonic acid (PFPeS)**	1.2	I	ng/L	P411983	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.2	U	ng/L	P411983	
		Perfluorononanesulfonic acid (PFNS)**	0.60	U	ng/L	P411983	
		Perfluorodecanesulfonic acid (PFDS)**	0.60	U	ng/L	P411983	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.60	U	ng/L	P411983	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.2	U	ng/L	P411983	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.2	U	ng/L	P411983	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.60	U	ng/L	P411983	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	3.0	U	ng/L	P411983	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	3.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	3.0	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	24	U	ng/L	P411983	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	3.0	U	ng/L	P411983	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.2	U	ng/L	P411983	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.2	U	ng/L	P411983	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	6.0	U	ng/L	P411983	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	6.0	U	ng/L	P411983	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	6.0	U	ng/L	P411983	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	6.0	U	ng/L	P411983	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	6.0	U	ng/L	P411983	

Field ID: SP-31 (82-86')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2316760	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	7.6	I	ng/L	P411983	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	12	U	ng/L	P411983	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P411878

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P411983

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P411983

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411878

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	104		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	103		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	91.4		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	140		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	114		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	84.2		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	92.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	117		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	84.1		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	154		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	142		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	88.1		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	99.2		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	76.6		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	109		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	115		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	94.5		P	30 - 160
Perfluorobutanoic acid (PFBA)	109		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	101		P	30 - 160
Perfluorodecanoic acid (PFDA)	116		P	30 - 160
Perfluorododecanoic acid (PFDoA)	106		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	68.7		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	114		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	88.1		P	30 - 160
Perfluorohexanoic acid (PFHxA)	67.1		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	91.7		P	30 - 160
Perfluorononanoic acid (PFNA)	133		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	115		P	30 - 160
Perfluorooctanoic acid (PFOA)	70.8		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	115		P	30 - 160
Perfluoropentanoic acid (PFPeA)	97.1		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	96.1		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	111		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	147		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	103		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411983

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	122		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	113		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	69.7		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	105		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	124		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	117		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	104		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	106		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	129		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	145		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
 Batch ID: P411983

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	150		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	97.4		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	104		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	104		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	128		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	115		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	105		P	30 - 160
Perfluorobutanoic acid (PFBA)	103		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	108		P	30 - 160
Perfluorodecanoic acid (PFDA)	70.6		P	30 - 160
Perfluorododecanoic acid (PFDoA)	112		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	107		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	89.8		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	102		P	30 - 160
Perfluorohexanoic acid (PFHxA)	87.7		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	112		P	30 - 160
Perfluorononanoic acid (PFNA)	123		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	108		P	30 - 160
Perfluorooctanoic acid (PFOA)	115		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	120		P	30 - 160
Perfluoropentanoic acid (PFPeA)	96.5		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	99.5		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	125		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	120		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	90.6		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411878

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2316214	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	61.9	66.3	P/P	30 - 160
2316214	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	81.7	109	P/P	30 - 160
2316214	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	92.3	113	P/P	30 - 160
2316214	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	107	118	P/P	30 - 160
2316214	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	133	144	P/P	30 - 160
2316214	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	111	118	P/P	30 - 160
2316214	Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.2	76.5	P/P	30 - 160
2316214	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	85.4	101	P/P	30 - 160
2316214	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	118	113	P/P	30 - 160
2316214	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	81.1	97.9	P/P	30 - 160
2316214	Perfluoro-1-butane sulfonamide (FBSA)	130	134	P/P	30 - 160
2316214	Perfluoro-1-hexane sulfonamide (FHxSA)	130	146	P/P	30 - 160
2316214	Perfluoro-1-octane sulfonamide (FOSA)	97.9	103	P/P	30 - 160
2316214	Perfluoro-3-methoxypropanoic acid (PFMPA)	110	116	P/P	30 - 160
2316214	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.0	82.2	P/P	30 - 160
2316214	Perfluoro-4-methoxybutanoic acid (PFMBA)	99.0	107	P/P	30 - 160
2316214	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	118	118	P/P	30 - 160
2316214	Perfluorobutanesulfonic acid (PFBS)	96.6	90.0	P/P	30 - 160
2316214	Perfluorobutanoic acid (PFBA)	119	122	P/P	30 - 160
2316214	Perfluorodecanesulfonic acid (PFDS)	62.4	66.2	P/P	30 - 160
2316214	Perfluorodecanoic acid (PFDA)	114	114	P/P	30 - 160
2316214	Perfluorododecanoic acid (PFDoA)	109	95.3	P/P	30 - 160
2316214	Perfluoroheptanesulfonic acid (PFHpS)	66.8	77.0	P/P	30 - 160
2316214	Perfluoroheptanoic acid (PFHpA)	109	118	P/P	30 - 160
2316214	Perfluorohexanesulfonic acid (PFHxS)	85.2	93.8	P/P	30 - 160
2316214	Perfluorohexanoic acid (PFHxA)	72.4	73.4	P/P	30 - 160
2316214	Perfluorononanesulfonic acid (PFNS)	82.0	83.3	P/P	30 - 160
2316214	Perfluorononanoic acid (PFNA)	102	121	P/P	30 - 160
2316214	Perfluorooctanoic acid (PFOA)	114	125	P/P	30 - 160
2316214	Perfluoropentanesulfonic acid (PFPeS)	116	119	P/P	30 - 160
2316214	Perfluoropentanoic acid (PFPeA)	121	117	P/P	30 - 160
2316214	Perfluoropropanesulfonic acid (PFPrS)	90.5	92.4	P/P	30 - 160
2316214	Perfluorotetradecanoic acid (PFTeA)	127	122	P/P	30 - 160
2316214	Perfluorotridecanoic acid (PFTriA)	147	139	P/P	30 - 160
2316214	Perfluoroundecanoic acid (PFUnA)	96.5	94.6	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411983

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2316756	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	76.3	74.2	P/P	30 - 160
2316756	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	82.3	104	P/P	30 - 160
2316756	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	65.5	67.5	P/P	30 - 160
2316756	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	146	115	P/P	30 - 160
2316756	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	86.8	92.4	P/P	30 - 160
2316756	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	100	107	P/P	30 - 160
2316756	Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.7	110	P/P	30 - 160
2316756	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	132	99.7	P/P	30 - 160
2316756	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	84.3	78.0	P/P	30 - 160
2316756	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	143	118	P/P	30 - 160
2316756	Perfluoro-1-butane sulfonamide (FBSA)	110	100	P/P	30 - 160
2316756	Perfluoro-1-hexane sulfonamide (FHxSA)	97.2	102	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3
 Batch ID: P411983

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2316756	Perfluoro-1-octane sulfonamide (FOSA)	96.9	99.8	P/P	30 - 160
2316756	Perfluoro-3-methoxypropanoic acid (PFMPA)	106	110	P/P	30 - 160
2316756	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	108	115	P/P	30 - 160
2316756	Perfluoro-4-methoxybutanoic acid (PFMBA)	121	81.0	P/P	30 - 160
2316756	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	104	96.5	P/P	30 - 160
2316756	Perfluorobutanesulfonic acid (PFBS)	93.7	92.1	P/P	30 - 160
2316756	Perfluorobutanoic acid (PFBA)	109	105	P/P	30 - 160
2316756	Perfluorodecanesulfonic acid (PFDS)	80.5	86.8	P/P	30 - 160
2316756	Perfluorodecanoic acid (PFDA)	110	107	P/P	30 - 160
2316756	Perfluorododecanoic acid (PFDoA)	94.6	90.9	P/P	30 - 160
2316756	Perfluoroheptanesulfonic acid (PFHpS)	115	129	P/P	30 - 160
2316756	Perfluoroheptanoic acid (PFHpA)	103	89.5	P/P	30 - 160
2316756	Perfluorohexanesulfonic acid (PFHxS)	96.0	120	P/P	30 - 160
2316756	Perfluorohexanoic acid (PFHxA)	100	113	P/P	30 - 160
2316756	Perfluorononanesulfonic acid (PFNS)	97.4	92.1	P/P	30 - 160
2316756	Perfluorononanoic acid (PFNA)	97.9	113	P/P	30 - 160
2316756	Perfluorooctanesulfonic acid (PFOS)	85.0	105	P/P	30 - 160
2316756	Perfluorooctanoic acid (PFOA)	134	139	P/P	30 - 160
2316756	Perfluoropentanesulfonic acid (PFPeS)	106	92.6	P/P	30 - 160
2316756	Perfluoropentanoic acid (PFPeA)	112	125	P/P	30 - 160
2316756	Perfluoropropanesulfonic acid (PFPrS)	80.5	70.4	P/P	30 - 160
2316756	Perfluorotetradecanoic acid (PFTeA)	92.1	98.7	P/P	30 - 160
2316756	Perfluorotridecanoic acid (PFTriA)	86.8	90.3	P/P	30 - 160
2316756	Perfluoroundecanoic acid (PFUnA)	59.4	75.4	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2316214	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.92	Spike	P	0 - 30
2316214	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	28.3	Spike	P	0 - 30
2316214	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	20.6	Spike	P	0 - 30
2316214	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.09	Spike	P	0 - 30
2316214	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.12	Spike	P	0 - 30
2316214	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.59	Spike	P	0 - 30
2316214	Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.12	Spike	P	0 - 30
2316214	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16.8	Spike	P	0 - 30
2316214	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.65	Spike	P	0 - 30
2316214	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	18.8	Spike	P	0 - 30
2316214	Perfluoro-1-butane sulfonamide (FBSA)	3.30	Spike	P	0 - 30
2316214	Perfluoro-1-hexane sulfonamide (FHxSA)	12.0	Spike	P	0 - 30
2316214	Perfluoro-1-octane sulfonamide (FOSA)	4.90	Spike	P	0 - 30
2316214	Perfluoro-3-methoxypropanoic acid (PFMPA)	6.11	Spike	P	0 - 30
2316214	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	10.5	Spike	P	0 - 30
2316214	Perfluoro-4-methoxybutanoic acid (PFMBA)	8.26	Spike	P	0 - 30
2316214	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.103	Spike	P	0 - 30
2316214	Perfluorobutanesulfonic acid (PFBS)	3.90	Spike	P	0 - 30
2316214	Perfluorobutanoic acid (PFBA)	2.08	Spike	P	0 - 30
2316214	Perfluorodecanesulfonic acid (PFDS)	5.88	Spike	P	0 - 30
2316214	Perfluorodecanoic acid (PFDA)	0.644	Spike	P	0 - 30
2316214	Perfluorododecanoic acid (PFDoA)	13.7	Spike	P	0 - 30
2316214	Perfluoroheptanesulfonic acid (PFHpS)	14.2	Spike	P	0 - 30
2316214	Perfluoroheptanoic acid (PFHpA)	8.58	Spike	P	0 - 30
2316214	Perfluorohexanesulfonic acid (PFHxS)	6.74	Spike	P	0 - 30
2316214	Perfluorohexanoic acid (PFHxA)	1.36	Spike	P	0 - 30
2316214	Perfluorononanesulfonic acid (PFNS)	1.54	Spike	P	0 - 30
2316214	Perfluorononanoic acid (PFNA)	17.0	Spike	P	0 - 30
2316214	Perfluorooctanesulfonic acid (PFOS)	12.1	Spike	P	0 - 30
2316214	Perfluorooctanoic acid (PFOA)	7.09	Spike	P	0 - 30
2316214	Perfluoropentanesulfonic acid (PFPeS)	2.44	Spike	P	0 - 30
2316214	Perfluoropentanoic acid (PFPeA)	3.38	Spike	P	0 - 30
2316214	Perfluoropropanesulfonic acid (PFPrS)	2.05	Spike	P	0 - 30
2316214	Perfluorotetradecanoic acid (PFTeA)	3.71	Spike	P	0 - 30
2316214	Perfluorotridecanoic acid (PFTriA)	5.25	Spike	P	0 - 30
2316214	Perfluoroundecanoic acid (PFUnA)	2.02	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P411983

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2316756	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.77	Spike	P	0 - 30
2316756	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	23.4	Spike	P	0 - 30
2316756	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	3.12	Spike	P	0 - 30
2316756	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	23.9	Spike	P	0 - 30
2316756	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.17	Spike	P	0 - 30
2316756	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	6.32	Spike	P	0 - 30
2316756	Hexafluoropropylene oxide dimer acid (HFPO-DA)	13.9	Spike	P	0 - 30
2316756	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	27.8	Spike	P	0 - 30
2316756	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	7.66	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3
 Batch ID: P411983

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2316756	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	18.9	Spike	P	0 - 30
2316756	Perfluoro-1-butane sulfonamide (FBSA)	8.41	Spike	P	0 - 30
2316756	Perfluoro-1-hexane sulfonamide (FHxSA)	4.60	Spike	P	0 - 30
2316756	Perfluoro-1-octane sulfonamide (FOSA)	2.89	Spike	P	0 - 30
2316756	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.27	Spike	P	0 - 30
2316756	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	6.32	Spike	P	0 - 30
2316756	Perfluoro-4-methoxybutanoic acid (PFMBA)	39.3	Spike	F	0 - 30
2316756	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.61	Spike	P	0 - 30
2316756	Perfluorobutanesulfonic acid (PFBS)	1.50	Spike	P	0 - 30
2316756	Perfluorobutanoic acid (PFBA)	3.00	Spike	P	0 - 30
2316756	Perfluorodecanesulfonic acid (PFDS)	7.54	Spike	P	0 - 30
2316756	Perfluorodecanoic acid (PFDA)	3.52	Spike	P	0 - 30
2316756	Perfluorododecanoic acid (PFDoA)	4.01	Spike	P	0 - 30
2316756	Perfluoroheptanesulfonic acid (PFHpS)	11.1	Spike	P	0 - 30
2316756	Perfluoroheptanoic acid (PFHpA)	14.4	Spike	P	0 - 30
2316756	Perfluorohexanesulfonic acid (PFHxS)	13.5	Spike	P	0 - 30
2316756	Perfluorohexanoic acid (PFHxA)	12.2	Spike	P	0 - 30
2316756	Perfluorononanesulfonic acid (PFNS)	5.57	Spike	P	0 - 30
2316756	Perfluorononanoic acid (PFNA)	13.9	Spike	P	0 - 30
2316756	Perfluorooctanesulfonic acid (PFOS)	10.7	Spike	P	0 - 30
2316756	Perfluorooctanoic acid (PFOA)	3.63	Spike	P	0 - 30
2316756	Perfluoropentanesulfonic acid (PFPeS)	11.6	Spike	P	0 - 30
2316756	Perfluoropentanoic acid (PFPeA)	10.7	Spike	P	0 - 30
2316756	Perfluoropropanesulfonic acid (PFPrS)	13.4	Spike	P	0 - 30
2316756	Perfluorotetradecanoic acid (PFTeA)	6.96	Spike	P	0 - 30
2316756	Perfluorotridecanoic acid (PFTriA)	3.97	Spike	P	0 - 30
2316756	Perfluoroundecanoic acid (PFUnA)	23.7	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2316746
Field Sample ID: SP-26 (66-70')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	97.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	145	P	30 - 160

Lab Sample ID: 2316747
Field Sample ID: SP-26 (86-90')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	147	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	155	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	142	P	30 - 160

Lab Sample ID: 2316748
Field Sample ID: SP-29 (36-40')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	138	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	158	P	30 - 160

Lab Sample ID: 2316749
Field Sample ID: SP-29 (46-50')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	149	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	144	P	30 - 160

Lab Sample ID: 2316750
Field Sample ID: SP-29 (66-70')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	104	P	30 - 160

Lab Sample ID: 2316751
Field Sample ID: Irrigation Well (105-140')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	98.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	122	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2316751
Field Sample ID: Irrigation Well (105-140')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	113	P	30 - 160

Lab Sample ID: 2316752
Field Sample ID: SP-30 (41-45')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	114	P	30 - 160

Lab Sample ID: 2316753
Field Sample ID: SP-30 (46-50')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	109	P	30 - 160

Lab Sample ID: 2316754
Field Sample ID: SP-30 (66-70')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	137	P	30 - 160

Lab Sample ID: 2316755
Field Sample ID: SP-30 (66-70') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	105	P	30 - 160

Lab Sample ID: 2316756
Field Sample ID: SP-30 (86-90')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	153	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2316756
Field Sample ID: SP-30 (86-90')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.4	P	30 - 160

Lab Sample ID: 2316757
Field Sample ID: SP-31 (41-45')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	86.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	155	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	120	P	30 - 160

Lab Sample ID: 2316758
Field Sample ID: SP-31 (46-50')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	136	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	124	P	30 - 160

Lab Sample ID: 2316759
Field Sample ID: SP-31 (66-70')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	111	P	30 - 160

Lab Sample ID: 2316760
Field Sample ID: SP-31 (82-86')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	155	P	30 - 160

Lab Sample ID: 2316761
Field Sample ID: EQB-45

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	79.2	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111403

Included Lab Sample IDs: 2316761

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	113	117	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.4	85.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	87.8	90.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	116	101	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	143	148	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	115	115	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.5	103	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	131	115	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.8	114	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	127	115	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	131	145	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	118	127	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	96.8	95.6	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	90.9	104	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	80.9	81.2	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	66.8	107	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	115	105	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	104	94.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	94.6	99.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	117	116	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	132	71.8	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	90.1	152	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	72.3	72.2	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	104	80.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	107	109	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	87.4	92.3	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	111	101	P/P	60 - 160
Perfluorononanoic acid (PFNA)	101	100	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	125	125	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	134	114	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	120	111	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	61.6	104	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	133	93.9	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	106	137	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	132	160	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	91.0	117	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A111629

Included Lab Sample IDs: 2316746, 2316747, 2316748, 2316749, 2316750, 2316751, 2316752, 2316753, 2316754, 2316755, 2316756, 2316757, 2316758, 2316759, 2316760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	123	128	P/P	60 - 160
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	128	122	P/P	60 - 160
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	128	128	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	131	97.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	131	131	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.3	146	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	61.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	61.8	147	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111629

Included Lab Sample IDs: 2316746, 2316747, 2316748, 2316749, 2316750, 2316751, 2316752, 2316753, 2316754, 2316755, 2316756, 2316757, 2316758, 2316759, 2316760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	74.0	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	92.2	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	82.3	90.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.2	82.3	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	117	99.5	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	79.5	117	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	96.1	79.5	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	107	116	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	114	119	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	119	107	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	121	86.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	133	121	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	86.2	129	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	133	128	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	78.7	133	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	90.1	78.7	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	70.4	77.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	78.3	89.7	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	89.7	70.4	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	71.4	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	122	93.0	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	71.4	122	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	103	128	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	128	106	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	92.7	103	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	147	89.2	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	89.2	98.5	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	98.5	86.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	101	98.8	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	95.6	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.6	101	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	111	116	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	123	111	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	91.2	123	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	106	117	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	117	106	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	128	106	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	101	111	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	108	101	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	70.3	108	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	103	112	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	96.2	103	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	96.4	96.2	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	102	103	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	96.8	99.0	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	99.0	102	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	103	111	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	111	111	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	111	110	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	111	124	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111629

Included Lab Sample IDs: 2316746, 2316747, 2316748, 2316749, 2316750, 2316751, 2316752, 2316753, 2316754, 2316755, 2316756, 2316757, 2316758, 2316759, 2316760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorodecanesulfonic acid (PFDS)	122	112	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	124	122	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	101	99.0	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	104	86.2	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	99.0	104	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	89.6	98.0	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	98.0	99.8	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	99.8	99.3	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	113	119	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	119	109	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	148	113	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	116	99.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	124	116	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	99.5	105	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.2	97.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	97.2	98.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	98.2	110	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	105	79.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	82.2	85.8	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	85.8	105	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	110	114	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	112	116	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	116	110	P/P	60 - 160
Perfluorononanoic acid (PFNA)	102	83.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	110	107	P/P	60 - 160
Perfluorononanoic acid (PFNA)	83.1	110	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	115	102	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	115	115	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	119	115	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	101	155	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	123	76.8	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	76.8	101	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	102	98.9	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	103	102	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	98.9	110	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	124	106	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	73.8	78.8	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	78.8	124	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	101	90.1	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	109	115	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	90.1	109	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	95.5	98.7	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	98.7	97.5	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	98.9	95.5	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	106	93.0	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	89.4	73.6	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	93.0	89.4	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	87.7	110	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	95.7	87.7	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	98.9	95.7	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111663

Included Lab Sample IDs: 2316746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorooctanesulfonic acid (PFOS)	93.2	96.4	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
DEP SOP: LC-001-3	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	104	61.9	66.3		6.92
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	122	76.3	74.2		2.77
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	103	81.7	109		28.3
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	113	82.3	104		23.4
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	91.4	92.3	113		20.6
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	69.7	65.5	67.5		3.12
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	107	118		9.09
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	146	115		23.9
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	140	133	144		8.12
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	105	86.8	92.4		6.17
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	114	111	118		5.59
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	124	100	107		6.32
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	84.2	82.2	76.5		7.12
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	117	95.7	110		13.9
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	92.6	85.4	101		16.8
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	104	132	99.7		27.8
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	117	118	113		3.65
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	106	84.3	78.0		7.66
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	84.1	81.1	97.9		18.8
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	129	143	118		18.9
	Perfluoro-1-butane sulfonamide (FBSA)	154	130	134		3.30
	Perfluoro-1-butane sulfonamide (FBSA)	145	110	100		8.41
	Perfluoro-1-hexane sulfonamide (FHxSA)	142	130	146		12.0
	Perfluoro-1-hexane sulfonamide (FHxSA)	150	97.2	102		4.60
	Perfluoro-1-octane sulfonamide (FOSA)	88.1	97.9	103		4.90
	Perfluoro-1-octane sulfonamide (FOSA)	97.4	96.9	99.8		2.89
	Perfluoro-3-methoxypropanoic acid (PFMPA)	99.2	110	116		6.11
	Perfluoro-3-methoxypropanoic acid (PFMPA)	104	106	110		3.27

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
				LCS			
DEP SOP: LC-001-3	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	76.6		74.0	82.2		10.5
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	104		108	115		6.32
	Perfluoro-4-methoxybutanoic acid (PFMBA)	109		99.0	107		8.26
	Perfluoro-4-methoxybutanoic acid (PFMBA)	128		121	81.0		39.3
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	115		118	118		0.103
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	115		104	96.5		7.61
	Perfluorobutanesulfonic acid (PFBS)	94.5		96.6	90.0		3.90
	Perfluorobutanesulfonic acid (PFBS)	105		93.7	92.1		1.50
	Perfluorobutanoic acid (PFBA)	109		119	122		2.08
	Perfluorobutanoic acid (PFBA)	103		109	105		3.00
	Perfluorodecanesulfonic acid (PFDS)	101		62.4	66.2		5.88
	Perfluorodecanesulfonic acid (PFDS)	108		80.5	86.8		7.54
	Perfluorodecanoic acid (PFDA)	116		114	114		0.644
	Perfluorodecanoic acid (PFDA)	70.6		110	107		3.52
	Perfluorododecanoic acid (PFDoA)	106		109	95.3		13.7
	Perfluorododecanoic acid (PFDoA)	112		94.6	90.9		4.01
	Perfluoroheptanesulfonic acid (PFHpS)	68.7		66.8	77.0		14.2
	Perfluoroheptanesulfonic acid (PFHpS)	107		115	129		11.1
	Perfluoroheptanoic acid (PFHpA)	114		109	118		8.58
	Perfluoroheptanoic acid (PFHpA)	89.8		103	89.5		14.4
	Perfluorohexanesulfonic acid (PFHxS)	88.1		85.2	93.8		6.74
	Perfluorohexanesulfonic acid (PFHxS)	102		96.0	120		13.5
	Perfluorohexanoic acid (PFHxA)	67.1		72.4	73.4		1.36
	Perfluorohexanoic acid (PFHxA)	87.7		100	113		12.2
	Perfluorononanesulfonic acid (PFNS)	91.7		82.0	83.3		1.54
	Perfluorononanesulfonic acid (PFNS)	112		97.4	92.1		5.57
	Perfluorononanoic acid (PFNA)	133		102	121		17.0
	Perfluorononanoic acid (PFNA)	123		97.9	113		13.9
	Perfluorooctanesulfonic acid (PFOS)	115					12.1
	Perfluorooctanesulfonic acid (PFOS)	108		85.0	105		10.7
	Perfluorooctanoic acid (PFOA)	70.8		114	125		7.09
	Perfluorooctanoic acid (PFOA)	115		134	139		3.63
	Perfluoropentanesulfonic acid (PFPeS)	115		116	119		2.44
Perfluoropentanesulfonic acid (PFPeS)	120		106	92.6		11.6	
Perfluoropentanoic acid (PFPeA)	97.1		121	117		3.38	
Perfluoropentanoic acid (PFPeA)	96.5		112	125		10.7	
Perfluoropropanesulfonic acid (PFPrS)	96.1		90.5	92.4		2.05	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	MS	SMP	MS
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	99.5	80.5	70.4		13.4
	Perfluorotetradecanoic acid (PFTeA)	111	127	122		3.71
	Perfluorotetradecanoic acid (PFTeA)	125	92.1	98.7		6.96
	Perfluorotridecanoic acid (PFTriA)	147	147	139		5.25
	Perfluorotridecanoic acid (PFTriA)	120	86.8	90.3		3.97
	Perfluoroundecanoic acid (PFUnA)	103	96.5	94.6		2.02
	Perfluoroundecanoic acid (PFUnA)	90.6	59.4	75.4		23.7

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2316746, 2316747, 2316748, 2316749, 2316750, 2316751, 2316752, 2316753, 2316754, 2316755, 2316756, 2316757, 2316758, 2316759, 2316760, 2316761

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	04/05/2022	04/08/2022 09:00	Hoor Shaik	04/10/2022 15:31	Mohammad Ghaffari	2316761
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 08:27	Mohammad Ghaffari	2316756
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 08:38	Mohammad Ghaffari	2316754
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 08:49	Mohammad Ghaffari	2316755
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 09:00	Mohammad Ghaffari	2316746
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 09:21	Mohammad Ghaffari	2316747
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 09:32	Mohammad Ghaffari	2316748
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 09:43	Mohammad Ghaffari	2316749
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 09:54	Mohammad Ghaffari	2316750
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 10:05	Mohammad Ghaffari	2316751
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 10:16	Mohammad Ghaffari	2316752
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 10:26	Mohammad Ghaffari	2316753
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 10:37	Mohammad Ghaffari	2316757
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 10:59	Mohammad Ghaffari	2316758
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 11:10	Mohammad Ghaffari	2316759
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/14/2022 11:20	Mohammad Ghaffari	2316760
	04/05/2022	04/11/2022 09:00	Hoor Shaik	04/22/2022 02:39	Mohammad Ghaffari	2316746

Chemical Analysis Report

SIS-2022-04-12-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

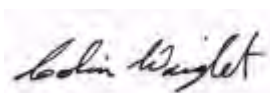
Event Description: **Former Florida State Fire College Site Wide Soil and GW Investigation**
Request ID: **RQ-2022-03-28-05**
Customer: **SIS**
Project ID: **SIS-PFAS**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: Robert Cilek

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 02-MAY-2022 14:12



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: FFSFC

Collection Date/Time: 04/06/2022 10:45

Field ID: SP-35 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318130	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	6.0		ng/L	P412221	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P412221	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412221	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412221	
		Perfluoroheptanoic acid (PFHpA)**	3.5	I	ng/L	P412221	RPD
		Perfluorohexanesulfonic acid (PFHxS)**	9.6		ng/L	P412221	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P412221	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412221	
		Perfluorooctanoic acid (PFOA)**	4.1	I	ng/L	P412221	
		Perfluorooctanesulfonic acid (PFOS)**	19		ng/L	P412221	
		Perfluoropentanoic acid (PFPeA)**	2.4	I	ng/L	P412221	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412221	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412221	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412221	
		Perfluoropentanesulfonic acid (PFPeS)**	1.3	I	ng/L	P412221	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P412221	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412221	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412221	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P412221	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P412221	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P412221	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412221	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412221	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412221	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P412221	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P412221	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412221	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P412221	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412221	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412221	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412221	

Field ID: SP-35 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318130	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412221	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P412221	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. MS accuracy and precision for 4,8-dioxo-3H-perfluorononanoic acid (ADONA) and perfluorooctanesulfonic acid (PFOS) could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 04/06/2022 11:05

Field ID: SP-35 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318131	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.8		ng/L	P412221	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P412221	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P412221	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P412221	
		Perfluoroheptanoic acid (PFHpA)**	2.2	I	ng/L	P412221	RPD
		Perfluorohexanesulfonic acid (PFHxS)**	7.9		ng/L	P412221	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P412221	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P412221	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P412221	
		Perfluorooctanesulfonic acid (PFOS)**	2.1	U	ng/L	P412221	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P412221	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P412221	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P412221	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P412221	
		Perfluoropentanesulfonic acid (PFPeS)**	0.85	I	ng/L	P412221	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P412221	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P412221	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P412221	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P412221	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.83	U	ng/L	P412221	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.83	U	ng/L	P412221	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P412221	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P412221	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P412221	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P412221	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P412221	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P412221	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.2	U	ng/L	P412221	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P412221	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P412221	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P412221	

Field ID: SP-35 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318131	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P412221	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.3	U	ng/L	P412221	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. MS accuracy and precision for 4,8-dioxa-3H-perfluorononanoic acid (ADONA) and perfluorooctanesulfonic acid (PFOS) could not be assessed due to high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/06/2022 11:40

Field ID: SP-35 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318132	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.42	U	ng/L	P412221	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P412221	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P412221	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P412221	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P412221	RPD
		Perfluorohexanesulfonic acid (PFHxS)**	0.83	U	ng/L	P412221	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P412221	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P412221	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P412221	
		Perfluorooctanesulfonic acid (PFOS)**	2.1	U	ng/L	P412221	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P412221	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P412221	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P412221	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P412221	
		Perfluoropentanesulfonic acid (PFPeS)**	0.42	U	ng/L	P412221	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P412221	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P412221	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P412221	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P412221	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.83	U	ng/L	P412221	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.83	U	ng/L	P412221	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P412221	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P412221	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P412221	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P412221	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P412221	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P412221	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.2	U	ng/L	P412221	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P412221	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P412221	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P412221	

Field ID: SP-35 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318132	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P412221	
		Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.3	U	ng/L	P412221	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. MS accuracy and precision for 4,8-dioxa-3H-perfluorononanoic acid (ADONA) and perfluorooctanesulfonic acid (PFOS) could not be assessed due to high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/06/2022 13:30

Field ID: SP-35 (78-82)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318133	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.41	U	ng/L	P412221	
		Perfluorobutanoic acid (PFBA)**	4.1	U	ng/L	P412221	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P412221	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412221	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P412221	RPD
		Perfluorohexanesulfonic acid (PFHxS)**	1.6	I	ng/L	P412221	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P412221	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412221	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P412221	
		Perfluorooctanesulfonic acid (PFOS)**	6.6	I	ng/L	P412221	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P412221	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412221	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412221	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412221	
		Perfluoropentanesulfonic acid (PFPeS)**	0.41	U	ng/L	P412221	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.81	U	ng/L	P412221	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P412221	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P412221	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P412221	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.81	U	ng/L	P412221	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.81	U	ng/L	P412221	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.0	I	ng/L	P412221	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412221	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412221	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.81	U	ng/L	P412221	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.81	U	ng/L	P412221	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P412221	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.1	U	ng/L	P412221	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P412221	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P412221	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P412221	

Field ID: SP-35 (78-82)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318133	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P412221	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.1	U	ng/L	P412221	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. MS accuracy and precision for 4,8-dioxa-3H-perfluorononanoic acid (ADONA) and perfluorooctanesulfonic acid (PFOS) could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 04/06/2022 13:30

Field ID: SP-35 (78-82)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318134	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.41	U	ng/L	P412221	
		Perfluorobutanoic acid (PFBA)**	4.1	U	ng/L	P412221	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P412221	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412221	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P412221	RPD
		Perfluorohexanesulfonic acid (PFHxS)**	1.4	I	ng/L	P412221	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P412221	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412221	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P412221	
		Perfluorooctanesulfonic acid (PFOS)**	6.0	I	ng/L	P412221	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P412221	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412221	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412221	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412221	
		Perfluoropentanesulfonic acid (PFPeS)**	0.41	U	ng/L	P412221	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.81	U	ng/L	P412221	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P412221	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P412221	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P412221	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.81	U	ng/L	P412221	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.81	U	ng/L	P412221	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.0	I	ng/L	P412221	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412221	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412221	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412221	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.81	U	ng/L	P412221	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.81	U	ng/L	P412221	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P412221	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.1	U	ng/L	P412221	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P412221	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P412221	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P412221	

Field ID: SP-35 (78-82)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318134	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P412221	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.1	U	ng/L	P412221	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. MS accuracy and precision for 4,8-dioxa-3H-perfluorononanoic acid (ADONA) and perfluorooctanesulfonic acid (PFOS) could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: FFSFC

Collection Date/Time: 04/06/2022 14:25

Field ID: FRB-10

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318143	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412274	

Field ID: FRB-10

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318143	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P412274	

Sample Location: FFSFC

Collection Date/Time: 04/06/2022 15:55

Field ID: SP-36 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318135	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	8.8		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	4.3	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	15		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	2.4	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	8.1	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	30		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	3.2	I	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	1.6	I	ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.83	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.83	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P412274	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.2	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P412274	

Field ID: SP-36 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318135	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	7.4	I	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.3	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/06/2022 16:40

Field ID: SP-36 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318136	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	11		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.4	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	6.4	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	31		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	7.7	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	42		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	9.8		ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	4.8		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.81	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.44	I	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.3	I	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.81	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.81	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.81	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412274	

Field ID: SP-36 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318136	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.1	U	ng/L	P412274	

Sample Location: FFSFC

Collection Date/Time: 04/07/2022 11:05

Field ID: SP-36 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318137	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	13		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	5.4	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	5.7	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	38		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	9.2		ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	8.1	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	48		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	8.6		ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	5.2		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.46	I	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.2	I	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.83	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.2	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P412274	

Field ID: SP-36 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318137	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P412274	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.3	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/07/2022 11:50

Field ID: SP-36 (81-85)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318138	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	13		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.1	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	5.0	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	41		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	7.2	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	6.5	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	48		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	6.2	I	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	6.2		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.3	I	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.4	I	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412274	

Field ID: SP-36 (81-85)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318138	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P412274	

Sample Location: FFSFC

Collection Date/Time: 04/07/2022 13:35

Field ID: EQB-47

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318144	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412274	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412274	

Field ID: EQB-47

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318144	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P412274	

Sample Location: FFSFC

Collection Date/Time: 04/07/2022 14:25

Field ID: SP-37 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318139	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	15		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	6.4	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	8.6		ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	52		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	11		ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	4.2	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	67		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	17		ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	5.9		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.6	I	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.5		ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412274	

Field ID: SP-37 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318139	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412274	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P412274	

Sample Location: FFSFC

Collection Date/Time: 04/07/2022 14:40

Field ID: SP-37 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318140	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	8.7		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.1	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	4.3	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	40		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	7.0	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	48		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	6.3	I	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	6.4		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.82	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	3.8		ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.82	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.1	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P412274	

Field ID: SP-37 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318140	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P412274	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.2	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/07/2022 14:40

Field ID: SP-37 (46-50)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318141	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	9.1		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.4	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	4.1	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	46		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	7.3	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	49		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	6.1	I	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	6.1		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.82	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	3.6		ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.82	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P412274	

Field ID: SP-37 (46-50)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318141	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.2	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/07/2022 15:00

Field ID: SP-37 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318142	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.5		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	6.1		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	9.4		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	0.42	U	ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.85	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.85	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.85	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.85	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.85	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.2	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P412274	

Field ID: SP-37 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318142	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.5	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/04/2022 10:35

Field ID: SP-32 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318164	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	6.9		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.5	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	5.6	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	32		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	7.3	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	3.3	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	45		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	9.7		ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	4.1		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.82	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.82	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.82	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P412274	

Field ID: SP-32 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318164	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.2	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/04/2022 10:55

Field ID: SP-32 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318165	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	6.4		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.3	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	5.0	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	41		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	3.8	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	3.5	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	41		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	7.8	I	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	6.2		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.3		ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412274	

Field ID: SP-32 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318165	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412274	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P412274	

Sample Location: FFSFC

Collection Date/Time: 04/04/2022 11:15

Field ID: SP-32 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318166	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	11		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	6.9	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.8	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.4	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	4.7	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	55		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	13		ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.4	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	4.6	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	89		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	19		ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.4	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.4	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.4	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	8.9		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.7	I	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.48	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.48	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.48	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	5.1		ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.96	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.48	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.4	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.4	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.4	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	19	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.4	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.96	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.96	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.8	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.8	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.8	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.8	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.8	U	ng/L	P412274	

Field ID: SP-32 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318166	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.8	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.6	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/04/2022 11:35

Field ID: SP-32 (86-90)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318167	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	8.7		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.5	U	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	6.4	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	43		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	6.8	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	2.5	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	48		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	11		ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	6.8		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.89	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.46	I	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.0		ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.89	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.45	U	ng/L	P412274	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	9.8		ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.89	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.89	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.5	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P412274	

Field ID: SP-32 (86-90)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318167	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.5	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.9	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/04/2022 15:30

Field ID: SP-33 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318168	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	12		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.5	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	6.6	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	26		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	7.6	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	6.2	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	41		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	13		ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	4.1		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.83	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.83	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.2	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P412274	

Field ID: SP-33 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318168	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.3	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/04/2022 16:05

Field ID: SP-33 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318169	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	8.6		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	18		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	3.0	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	3.6	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	30		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	6.8	I	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	2.2		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412274	

Field ID: SP-33 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318169	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P412274	

Sample Location: FFSFC

Collection Date/Time: 04/04/2022 16:05

Field ID: SP-33 (46-50)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318170	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	10		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	22		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	3.5	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	3.6	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	35		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	6.6	I	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	2.0		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412274	

Field ID: SP-33 (46-50)_Dup

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318170	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P412274	

Sample Location: FFSFC

Collection Date/Time: 04/04/2022 16:30

Field ID: SP-33 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318171	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	9.0		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.3	U	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	3.8	I	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	16		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	6.4	I	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	2.5	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	40		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	5.7	I	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	2.0		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.87	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.87	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.87	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.43	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.87	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.87	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.3	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P412274	

Field ID: SP-33 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318171	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.3	U	ng/L	P412274	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.7	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/04/2022 16:55

Field ID: SP-33 (86-90)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318172	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	11		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.7	I	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	24		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	9.4		ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	6.1	I	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	43		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	11		ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	3.4		ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.90	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.45	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.90	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.90	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.45	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.90	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.90	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.5	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P412274	

Field ID: SP-33 (86-90)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318172	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.5	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.0	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/05/2022 09:50

Field ID: EQB-46

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318177	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P412421	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P412421	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P412421	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P412421	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P412421	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P412421	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P412421	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P412421	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P412421	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P412421	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P412421	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P412421	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P412421	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P412421	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P412421	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P412421	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P412421	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P412421	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P412421	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P412421	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P412421	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P412421	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P412421	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P412421	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P412421	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P412421	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P412421	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P412421	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P412421	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P412421	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P412421	

Field ID: EQB-46

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318177	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P412421	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P412421	

Sample Location: FFSFC

Collection Date/Time: 04/05/2022 10:55

Field ID: SP-34 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318173	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.5		ng/L	P412274	
		Perfluorobutanoic acid (PFBA)**	4.3	U	ng/L	P412274	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P412274	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P412274	
		Perfluoroheptanoic acid (PFHpA)**	2.2	U	ng/L	P412274	
		Perfluorohexanesulfonic acid (PFHxS)**	12		ng/L	P412274	
		Perfluorohexanoic acid (PFHxA)**	2.2	U	ng/L	P412274	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P412274	
		Perfluorooctanoic acid (PFOA)**	2.2	U	ng/L	P412274	
		Perfluorooctanesulfonic acid (PFOS)**	12		ng/L	P412274	
		Perfluoropentanoic acid (PFPeA)**	2.2	U	ng/L	P412274	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P412274	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P412274	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P412274	
		Perfluoropentanesulfonic acid (PFPeS)**	1.5	I	ng/L	P412274	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.86	U	ng/L	P412274	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P412274	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P412274	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P412274	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.86	U	ng/L	P412274	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.86	U	ng/L	P412274	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.43	U	ng/L	P412274	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P412274	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P412274	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P412274	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.86	U	ng/L	P412274	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.86	U	ng/L	P412274	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P412274	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.3	U	ng/L	P412274	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P412274	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P412274	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P412274	

Field ID: SP-34 (36-40)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318173	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.3	U	ng/L	P412274	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.6	U	ng/L	P412274	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/05/2022 11:15

Field ID: SP-34 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318174	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.45	U	ng/L	P412421	
		Perfluorobutanoic acid (PFBA)**	4.5	U	ng/L	P412421	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P412421	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P412421	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P412421	
		Perfluorohexanesulfonic acid (PFHxS)**	4.0		ng/L	P412421	
		Perfluorohexanoic acid (PFHxA)**	2.3	U	ng/L	P412421	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P412421	
		Perfluorooctanoic acid (PFOA)**	2.3	U	ng/L	P412421	
		Perfluorooctanesulfonic acid (PFOS)**	6.1	I	ng/L	P412421	
		Perfluoropentanoic acid (PFPeA)**	2.3	U	ng/L	P412421	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P412421	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P412421	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P412421	
		Perfluoropentanesulfonic acid (PFPeS)**	0.76	I	ng/L	P412421	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.90	U	ng/L	P412421	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P412421	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P412421	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.45	U	ng/L	P412421	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.90	U	ng/L	P412421	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.90	U	ng/L	P412421	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.45	U	ng/L	P412421	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P412421	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P412421	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.90	U	ng/L	P412421	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.90	U	ng/L	P412421	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P412421	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.5	U	ng/L	P412421	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P412421	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P412421	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P412421	

Field ID: SP-34 (46-50)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318174	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.5	U	ng/L	P412421	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	9.0	U	ng/L	P412421	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/05/2022 11:45

Field ID: SP-34 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318175	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.45	U	ng/L	P412421	
		Perfluorobutanoic acid (PFBA)**	4.5	U	ng/L	P412421	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P412421	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P412421	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P412421	
		Perfluorohexanesulfonic acid (PFHxS)**	0.90	U	ng/L	P412421	
		Perfluorohexanoic acid (PFHxA)**	2.3	U	ng/L	P412421	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P412421	
		Perfluorooctanoic acid (PFOA)**	2.3	U	ng/L	P412421	
		Perfluorooctanesulfonic acid (PFOS)**	2.3	U	ng/L	P412421	
		Perfluoropentanoic acid (PFPeA)**	2.3	U	ng/L	P412421	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P412421	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P412421	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P412421	
		Perfluoropentanesulfonic acid (PFPeS)**	0.45	U	ng/L	P412421	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.90	U	ng/L	P412421	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P412421	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P412421	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.45	U	ng/L	P412421	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.90	U	ng/L	P412421	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.90	U	ng/L	P412421	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.45	U	ng/L	P412421	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P412421	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P412421	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.90	U	ng/L	P412421	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.90	U	ng/L	P412421	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P412421	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.5	U	ng/L	P412421	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P412421	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P412421	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P412421	

Field ID: SP-34 (66-70)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318175	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.5	U	ng/L	P412421	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.0	U	ng/L	P412421	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: FFSFC

Collection Date/Time: 04/05/2022 14:35

Field ID: SP-34 (86-90)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318176	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.3		ng/L	P412421	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P412421	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P412421	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P412421	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P412421	
		Perfluorohexanesulfonic acid (PFHxS)**	7.1		ng/L	P412421	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P412421	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P412421	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P412421	
		Perfluorooctanesulfonic acid (PFOS)**	5.0	I	ng/L	P412421	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P412421	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P412421	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P412421	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P412421	
		Perfluoropentanesulfonic acid (PFPeS)**	1.4	I	ng/L	P412421	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.84	U	ng/L	P412421	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P412421	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P412421	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P412421	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.84	U	ng/L	P412421	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.84	U	ng/L	P412421	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P412421	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P412421	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P412421	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P412421	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.84	U	ng/L	P412421	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.84	U	ng/L	P412421	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P412421	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.2	U	ng/L	P412421	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P412421	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P412421	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P412421	

Field ID: SP-34 (86-90)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318176	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P412421	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.4	U	ng/L	P412421	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P412221

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P412274

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
 Batch ID: P412274

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3
 Batch ID: P412421

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P412421

Component	Result	Code	Units
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P412221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	74.9		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	114		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.3		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	76.6		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	84.3		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.9		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.4		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	119		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	130		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	157		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	152		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	104		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	88.1		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	102		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	112		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	99.1		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	103		P	30 - 160
Perfluorobutanoic acid (PFBA)	89.1		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	78.3		P	30 - 160
Perfluorodecanoic acid (PFDA)	88.2		P	30 - 160
Perfluorododecanoic acid (PFDoA)	130		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	90.7		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	95.6		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	94.3		P	30 - 160
Perfluorohexanoic acid (PFHxA)	110		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	81.0		P	30 - 160
Perfluorononanoic acid (PFNA)	89.5		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	87.6		P	30 - 160
Perfluorooctanoic acid (PFOA)	127		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	112		P	30 - 160
Perfluoropentanoic acid (PFPeA)	102		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	134		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	118		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	128		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	113		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P412274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.5		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	80.9		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	153		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	97.8		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	95.2		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	117		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	102		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	121		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	59.8		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	133		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
 Batch ID: P412274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	156		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	124		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	105		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	96.8		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	126		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	109		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	101		P	30 - 160
Perfluorobutanoic acid (PFBA)	108		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	95.6		P	30 - 160
Perfluorodecanoic acid (PFDA)	123		P	30 - 160
Perfluorododecanoic acid (PFDoA)	101		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	92.5		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	104		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	97.1		P	30 - 160
Perfluorohexanoic acid (PFHxA)	99.8		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	109		P	30 - 160
Perfluorononanoic acid (PFNA)	121		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	108		P	30 - 160
Perfluorooctanoic acid (PFOA)	149		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	104		P	30 - 160
Perfluoropentanoic acid (PFPeA)	101		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	106		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	110		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	116		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	107		P	30 - 160

Reference Method: DEP SOP: LC-001-3
 Batch ID: P412421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	90.6		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	109		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	88.2		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	77.8		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	112		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	68.9		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	93.5		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	140		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	103		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	133		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	160		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.4		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	84.2		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	123		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	119		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	108		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	108		P	30 - 160
Perfluorobutanoic acid (PFBA)	110		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	92.0		P	30 - 160
Perfluorodecanoic acid (PFDA)	119		P	30 - 160
Perfluorododecanoic acid (PFDoA)	112		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P412421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoroheptanesulfonic acid (PFHpS)	104		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	117		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	96.8		P	30 - 160
Perfluorohexanoic acid (PFHxA)	101		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	90.7		P	30 - 160
Perfluorononanoic acid (PFNA)	67.4		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	107		P	30 - 160
Perfluorooctanoic acid (PFOA)	105		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	117		P	30 - 160
Perfluoropentanoic acid (PFPeA)	79.0		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	108		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	140		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	130		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	116		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P412221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2317972	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	70.5	60.6	P/P	30 - 160
2317972	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	89.0	79.8	P/P	30 - 160
2317972	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	93.9	108	P/P	30 - 160
2317972	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	40.2	33.5	P/P	30 - 160
2317972	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	93.9	82.4	P/P	30 - 160
2317972	Hexafluoropropylene oxide dimer acid (HFPO-DA)	113	93.8	P/P	30 - 160
2317972	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	72.4	75.7	P/P	30 - 160
2317972	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	87.6	97.1	P/P	30 - 160
2317972	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	108	114	P/P	30 - 160
2317972	Perfluoro-1-octane sulfonamide (FOSA)	91.1	90.0	P/P	30 - 160
2317972	Perfluoro-3-methoxypropanoic acid (PFMPA)	110	108	P/P	30 - 160
2317972	Perfluoro-4-methoxybutanoic acid (PFMBA)	148	144	P/P	30 - 160
2317972	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	112	132	P/P	30 - 160
2317972	Perfluorodecanesulfonic acid (PFDS)	69.2	59.8	P/P	30 - 160
2317972	Perfluorodecanoic acid (PFDA)	106	110	P/P	30 - 160
2317972	Perfluorododecanoic acid (PFDoA)	97.7	118	P/P	30 - 160
2317972	Perfluorononanesulfonic acid (PFNS)	81.4	79.8	P/P	30 - 160
2317972	Perfluorotetradecanoic acid (PFTeA)	100	107	P/P	30 - 160
2317972	Perfluorotridecanoic acid (PFTriA)	84.2	105	P/P	30 - 160
2317972	Perfluoroundecanoic acid (PFUnA)	100	89.7	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P412274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318135	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	88.5	74.5	P/P	30 - 160
2318135	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	136	119	P/P	30 - 160
2318135	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	81.4	106	P/P	30 - 160
2318135	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109	127	P/P	30 - 160
2318135	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	74.1	73.1	P/P	30 - 160
2318135	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	126	105	P/P	30 - 160
2318135	Hexafluoropropylene oxide dimer acid (HFPO-DA)	112	118	P/P	30 - 160
2318135	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	73.8	88.7	P/P	30 - 160
2318135	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	142	127	P/P	30 - 160
2318135	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	99.7	108	P/P	30 - 160
2318135	Perfluoro-1-butane sulfonamide (FBSA)	111	119	P/P	30 - 160
2318135	Perfluoro-1-hexane sulfonamide (FHxSA)	120	105	P/P	30 - 160
2318135	Perfluoro-1-octane sulfonamide (FOSA)	117	109	P/P	30 - 160
2318135	Perfluoro-3-methoxypropanoic acid (PFMPA)	132	130	P/P	30 - 160
2318135	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	110	123	P/P	30 - 160
2318135	Perfluoro-4-methoxybutanoic acid (PFMBA)	119	139	P/P	30 - 160
2318135	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	123	111	P/P	30 - 160
2318135	Perfluorobutanesulfonic acid (PFBS)	113	90.4	P/P	30 - 160
2318135	Perfluorobutanoic acid (PFBA)	123	126	P/P	30 - 160
2318135	Perfluorodecanesulfonic acid (PFDS)	88.8	83.6	P/P	30 - 160
2318135	Perfluorodecanoic acid (PFDA)	110	106	P/P	30 - 160
2318135	Perfluorododecanoic acid (PFDoA)	143	148	P/P	30 - 160
2318135	Perfluoroheptanesulfonic acid (PFHpS)	107	110	P/P	30 - 160
2318135	Perfluoroheptanoic acid (PFHpA)	119	102	P/P	30 - 160
2318135	Perfluorohexanesulfonic acid (PFHxS)	107	126	P/P	30 - 160
2318135	Perfluorohexanoic acid (PFHxA)	113	138	P/P	30 - 160
2318135	Perfluorononanesulfonic acid (PFNS)	108	95.5	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P412274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318135	Perfluorononanoic acid (PFNA)	113	105	P/P	30 - 160
2318135	Perfluorooctanesulfonic acid (PFOS)	100	54.5	P/P	30 - 160
2318135	Perfluorooctanoic acid (PFOA)	120	134	P/P	30 - 160
2318135	Perfluoropentanesulfonic acid (PFPeS)	126	111	P/P	30 - 160
2318135	Perfluoropentanoic acid (PFPeA)	94.8	95.8	P/P	30 - 160
2318135	Perfluoropropanesulfonic acid (PFPrS)	97.5	100	P/P	30 - 160
2318135	Perfluorotetradecanoic acid (PFTeA)	116	108	P/P	30 - 160
2318135	Perfluorotridecanoic acid (PFTriA)	87.3	85.0	P/P	30 - 160
2318135	Perfluoroundecanoic acid (PFUnA)	136	132	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P412421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319848	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	84.5	70.8	P/P	30 - 160
2319848	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	131	98.9	P/P	30 - 160
2319848	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	90.5	105	P/P	30 - 160
2319848	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	122	99.0	P/P	30 - 160
2319848	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	107	87.5	P/P	30 - 160
2319848	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	104	106	P/P	30 - 160
2319848	Hexafluoropropylene oxide dimer acid (HFPO-DA)	116	124	P/P	30 - 160
2319848	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	111	131	P/P	30 - 160
2319848	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	107	125	P/P	30 - 160
2319848	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	76.9	57.7	P/P	30 - 160
2319848	Perfluoro-1-butane sulfonamide (FBSA)	117	112	P/P	30 - 160
2319848	Perfluoro-1-hexane sulfonamide (FHxSA)	122	120	P/P	30 - 160
2319848	Perfluoro-1-octane sulfonamide (FOSA)	109	106	P/P	30 - 160
2319848	Perfluoro-3-methoxypropanoic acid (PFMPA)	103	100	P/P	30 - 160
2319848	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	122	93.3	P/P	30 - 160
2319848	Perfluoro-4-methoxybutanoic acid (PFMBA)	123	111	P/P	30 - 160
2319848	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	117	112	P/P	30 - 160
2319848	Perfluorobutanesulfonic acid (PFBS)	117	134	P/P	30 - 160
2319848	Perfluorobutanoic acid (PFBA)	118	101	P/P	30 - 160
2319848	Perfluorodecanesulfonic acid (PFDS)	88.8	79.5	P/P	30 - 160
2319848	Perfluorodecanoic acid (PFDA)	112	125	P/P	30 - 160
2319848	Perfluorododecanoic acid (PFDoA)	124	110	P/P	30 - 160
2319848	Perfluoroheptanesulfonic acid (PFHpS)	116	93.4	P/P	30 - 160
2319848	Perfluoroheptanoic acid (PFHpA)	78.3	86.3	P/P	30 - 160
2319848	Perfluorohexanesulfonic acid (PFHxS)	125	93.3	P/P	30 - 160
2319848	Perfluorohexanoic acid (PFHxA)	127	107	P/P	30 - 160
2319848	Perfluorononanesulfonic acid (PFNS)	109	91.0	P/P	30 - 160
2319848	Perfluorononanoic acid (PFNA)	112	99.4	P/P	30 - 160
2319848	Perfluorooctanesulfonic acid (PFOS)	107	113	P/P	30 - 160
2319848	Perfluorooctanoic acid (PFOA)	90.0	92.9	P/P	30 - 160
2319848	Perfluoropentanesulfonic acid (PFPeS)	117	115	P/P	30 - 160
2319848	Perfluoropentanoic acid (PFPeA)	96.7	94.2	P/P	30 - 160
2319848	Perfluoropropanesulfonic acid (PFPrS)	120	131	P/P	30 - 160
2319848	Perfluorotetradecanoic acid (PFTeA)	127	118	P/P	30 - 160
2319848	Perfluorotridecanoic acid (PFTriA)	114	98.8	P/P	30 - 160
2319848	Perfluoroundecanoic acid (PFUnA)	102	103	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P412221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2317972	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	15.0	Spike	P	0 - 30
2317972	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	10.8	Spike	P	0 - 30
2317972	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.42	Spike	P	0 - 30
2317972	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	18.1	Spike	P	0 - 30
2317972	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	13.1	Spike	P	0 - 30
2317972	Hexafluoropropylene oxide dimer acid (HFPO-DA)	18.3	Spike	P	0 - 30
2317972	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.48	Spike	P	0 - 30
2317972	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	10.2	Spike	P	0 - 30
2317972	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.31	Spike	P	0 - 30
2317972	Perfluoro-1-butane sulfonamide (FBSA)	8.96	Spike	P	0 - 30
2317972	Perfluoro-1-hexane sulfonamide (FHxSA)	4.73	Spike	P	0 - 30
2317972	Perfluoro-1-octane sulfonamide (FOSA)	1.24	Spike	P	0 - 30
2317972	Perfluoro-3-methoxypropanoic acid (PFMPA)	1.59	Spike	P	0 - 30
2317972	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	10.8	Spike	P	0 - 30
2317972	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.27	Spike	P	0 - 30
2317972	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	16.5	Spike	P	0 - 30
2317972	Perfluorobutanesulfonic acid (PFBS)	17.9	Spike	P	0 - 30
2317972	Perfluorobutanoic acid (PFBA)	1.81	Spike	P	0 - 30
2317972	Perfluorodecanesulfonic acid (PFDS)	14.5	Spike	P	0 - 30
2317972	Perfluorodecanoic acid (PFDA)	4.20	Spike	P	0 - 30
2317972	Perfluorododecanoic acid (PFDoA)	18.8	Spike	P	0 - 30
2317972	Perfluoroheptanesulfonic acid (PFHpS)	4.04	Spike	P	0 - 30
2317972	Perfluoroheptanoic acid (PFHpA)	46.6	Spike	F	0 - 30
2317972	Perfluorohexanesulfonic acid (PFHxS)	9.75	Spike	P	0 - 30
2317972	Perfluorohexanoic acid (PFHxA)	15.6	Spike	P	0 - 30
2317972	Perfluorononanesulfonic acid (PFNS)	1.97	Spike	P	0 - 30
2317972	Perfluorononanoic acid (PFNA)	4.95	Spike	P	0 - 30
2317972	Perfluorooctanoic acid (PFOA)	3.21	Spike	P	0 - 30
2317972	Perfluoropentanesulfonic acid (PFPeS)	15.0	Spike	P	0 - 30
2317972	Perfluoropentanoic acid (PFPeA)	9.44	Spike	P	0 - 30
2317972	Perfluoropropanesulfonic acid (PFPrS)	26.4	Spike	P	0 - 30
2317972	Perfluorotetradecanoic acid (PFTeA)	6.12	Spike	P	0 - 30
2317972	Perfluorotridecanoic acid (PFTriA)	21.5	Spike	P	0 - 30
2317972	Perfluoroundecanoic acid (PFUnA)	11.2	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P412274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318135	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	17.1	Spike	P	0 - 30
2318135	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	13.4	Spike	P	0 - 30
2318135	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	26.1	Spike	P	0 - 30
2318135	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	15.2	Spike	P	0 - 30
2318135	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.31	Spike	P	0 - 30
2318135	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	18.5	Spike	P	0 - 30
2318135	Hexafluoropropylene oxide dimer acid (HFPO-DA)	5.31	Spike	P	0 - 30
2318135	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.2	Spike	P	0 - 30
2318135	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	10.8	Spike	P	0 - 30
2318135	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.18	Spike	P	0 - 30
2318135	Perfluoro-1-butane sulfonamide (FBSA)	7.27	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P412274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318135	Perfluoro-1-hexane sulfonamide (FHxSA)	13.3	Spike	P	0 - 30
2318135	Perfluoro-1-octane sulfonamide (FOSA)	7.17	Spike	P	0 - 30
2318135	Perfluoro-3-methoxypropanoic acid (PFMPA)	1.56	Spike	P	0 - 30
2318135	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	10.9	Spike	P	0 - 30
2318135	Perfluoro-4-methoxybutanoic acid (PFMBA)	16.0	Spike	P	0 - 30
2318135	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	9.95	Spike	P	0 - 30
2318135	Perfluorobutanesulfonic acid (PFBS)	14.7	Spike	P	0 - 30
2318135	Perfluorobutanoic acid (PFBA)	2.23	Spike	P	0 - 30
2318135	Perfluorodecanesulfonic acid (PFDS)	6.04	Spike	P	0 - 30
2318135	Perfluorodecanoic acid (PFDA)	3.31	Spike	P	0 - 30
2318135	Perfluorododecanoic acid (PFDoA)	3.46	Spike	P	0 - 30
2318135	Perfluoroheptanesulfonic acid (PFHpS)	2.83	Spike	P	0 - 30
2318135	Perfluoroheptanoic acid (PFHpA)	12.5	Spike	P	0 - 30
2318135	Perfluorohexanesulfonic acid (PFHxS)	8.97	Spike	P	0 - 30
2318135	Perfluorohexanoic acid (PFHxA)	17.8	Spike	P	0 - 30
2318135	Perfluorononanesulfonic acid (PFNS)	12.3	Spike	P	0 - 30
2318135	Perfluorononanoic acid (PFNA)	7.25	Spike	P	0 - 30
2318135	Perfluorooctanesulfonic acid (PFOS)	17.9	Spike	P	0 - 30
2318135	Perfluorooctanoic acid (PFOA)	7.60	Spike	P	0 - 30
2318135	Perfluoropentanesulfonic acid (PFPeS)	11.7	Spike	P	0 - 30
2318135	Perfluoropentanoic acid (PFPeA)	0.838	Spike	P	0 - 30
2318135	Perfluoropropanesulfonic acid (PFPrS)	1.98	Spike	P	0 - 30
2318135	Perfluorotetradecanoic acid (PFTeA)	6.77	Spike	P	0 - 30
2318135	Perfluorotridecanoic acid (PFTriA)	2.75	Spike	P	0 - 30
2318135	Perfluoroundecanoic acid (PFUnA)	2.85	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P412421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319848	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	17.7	Spike	P	0 - 30
2319848	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	28.2	Spike	P	0 - 30
2319848	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	15.0	Spike	P	0 - 30
2319848	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	20.7	Spike	P	0 - 30
2319848	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	20.3	Spike	P	0 - 30
2319848	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.43	Spike	P	0 - 30
2319848	Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.25	Spike	P	0 - 30
2319848	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16.5	Spike	P	0 - 30
2319848	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	15.8	Spike	P	0 - 30
2319848	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	28.4	Spike	P	0 - 30
2319848	Perfluoro-1-butane sulfonamide (FBSA)	4.48	Spike	P	0 - 30
2319848	Perfluoro-1-hexane sulfonamide (FHxSA)	1.79	Spike	P	0 - 30
2319848	Perfluoro-1-octane sulfonamide (FOSA)	3.02	Spike	P	0 - 30
2319848	Perfluoro-3-methoxypropanoic acid (PFMPA)	2.37	Spike	P	0 - 30
2319848	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	26.6	Spike	P	0 - 30
2319848	Perfluoro-4-methoxybutanoic acid (PFMBA)	10.3	Spike	P	0 - 30
2319848	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.71	Spike	P	0 - 30
2319848	Perfluorobutanesulfonic acid (PFBS)	13.0	Spike	P	0 - 30
2319848	Perfluorobutanoic acid (PFBA)	15.9	Spike	P	0 - 30
2319848	Perfluorodecanesulfonic acid (PFDS)	11.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3
 Batch ID: P412421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319848	Perfluorodecanoic acid (PFDA)	10.2	Spike	P	0 - 30
2319848	Perfluorododecanoic acid (PFDoA)	12.5	Spike	P	0 - 30
2319848	Perfluoroheptanesulfonic acid (PFHpS)	21.4	Spike	P	0 - 30
2319848	Perfluoroheptanoic acid (PFHpA)	9.75	Spike	P	0 - 30
2319848	Perfluorohexanesulfonic acid (PFHxS)	29.0	Spike	P	0 - 30
2319848	Perfluorohexanoic acid (PFHxA)	17.5	Spike	P	0 - 30
2319848	Perfluorononanesulfonic acid (PFNS)	18.5	Spike	P	0 - 30
2319848	Perfluorononanoic acid (PFNA)	12.0	Spike	P	0 - 30
2319848	Perfluorooctanesulfonic acid (PFOS)	6.13	Spike	P	0 - 30
2319848	Perfluorooctanoic acid (PFOA)	3.24	Spike	P	0 - 30
2319848	Perfluoropentanesulfonic acid (PFPeS)	2.19	Spike	P	0 - 30
2319848	Perfluoropentanoic acid (PFPeA)	2.57	Spike	P	0 - 30
2319848	Perfluoropropanesulfonic acid (PFPrS)	8.93	Spike	P	0 - 30
2319848	Perfluorotetradecanoic acid (PFTeA)	7.86	Spike	P	0 - 30
2319848	Perfluorotridecanoic acid (PFTriA)	13.9	Spike	P	0 - 30
2319848	Perfluoroundecanoic acid (PFUnA)	0.917	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2318130
Field Sample ID: SP-35 (36-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	119	P	30 - 160

Lab Sample ID: 2318131
Field Sample ID: SP-35 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	128	P	30 - 160

Lab Sample ID: 2318132
Field Sample ID: SP-35 (66-70)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.6	P	30 - 160

Lab Sample ID: 2318133
Field Sample ID: SP-35 (78-82)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	135	P	30 - 160

Lab Sample ID: 2318134
Field Sample ID: SP-35 (78-82)_Dup

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	107	P	30 - 160

Lab Sample ID: 2318135
Field Sample ID: SP-36 (36-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	84.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160

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Lab Sample ID: 2318135
Field Sample ID: SP-36 (36-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	152	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	126	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	109	P	30 - 160

Lab Sample ID: 2318136
Field Sample ID: SP-36 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	117	P	30 - 160

Lab Sample ID: 2318137
Field Sample ID: SP-36 (66-70)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	90.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	100	P	30 - 160

Lab Sample ID: 2318138
Field Sample ID: SP-36 (81-85)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	130	P	30 - 160

Lab Sample ID: 2318139
Field Sample ID: SP-37 (36-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	67.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.2	P	30 - 160

Lab Sample ID: 2318140
Field Sample ID: SP-37 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	154	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160

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Lab Sample ID: 2318140
Field Sample ID: SP-37 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	113	P	30 - 160

Lab Sample ID: 2318141
Field Sample ID: SP-37 (46-50)_Dup

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	97.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	156	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.0	P	30 - 160

Lab Sample ID: 2318142
Field Sample ID: SP-37 (66-70)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.8	P	30 - 160

Lab Sample ID: 2318143
Field Sample ID: FRB-10

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	95.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	113	P	30 - 160

Lab Sample ID: 2318144
Field Sample ID: EQB-47

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.3	P	30 - 160

Lab Sample ID: 2318164
Field Sample ID: SP-32 (36-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	127	P	30 - 160

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Lab Sample ID: 2318165
Field Sample ID: SP-32 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	89.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	120	P	30 - 160

Lab Sample ID: 2318166
Field Sample ID: SP-32 (66-70)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	93.8	P	30 - 160

Lab Sample ID: 2318167
Field Sample ID: SP-32 (86-90)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	158	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	118	P	30 - 160

Lab Sample ID: 2318168
Field Sample ID: SP-33 (36-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	68.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	81.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.0	P	30 - 160

Lab Sample ID: 2318169
Field Sample ID: SP-33 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	114	P	30 - 160

Lab Sample ID: 2318170
Field Sample ID: SP-33 (46-50)_Dup

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160

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Lab Sample ID: 2318170
Field Sample ID: SP-33 (46-50)_Dup

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	88.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.3	P	30 - 160

Lab Sample ID: 2318171
Field Sample ID: SP-33 (66-70)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.1	P	30 - 160

Lab Sample ID: 2318172
Field Sample ID: SP-33 (86-90)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	64.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	87.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.6	P	30 - 160

Lab Sample ID: 2318173
Field Sample ID: SP-34 (36-40)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	83.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2318174
Field Sample ID: SP-34 (46-50)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	75.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	130	P	30 - 160

Lab Sample ID: 2318175
Field Sample ID: SP-34 (66-70)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	137	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.6	P	30 - 160

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Lab Sample ID: 2318175
Field Sample ID: SP-34 (66-70)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	100	P	30 - 160

Lab Sample ID: 2318176
Field Sample ID: SP-34 (86-90)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	96.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	133	P	30 - 160

Lab Sample ID: 2318177
Field Sample ID: EQB-46

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	94.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.1	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111661

Included Lab Sample IDs: 2318135, 2318136, 2318137, 2318138, 2318139, 2318140, 2318141, 2318142, 2318143, 2318144, 2318164, 2318165, 2318166, 2318167, 2318168, 2318169, 2318170, 2318171, 2318172, 2318173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.8	97.7	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	97.7	113	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	99.4	95.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	100	67.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	67.0	63.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	81.9	100	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	129	95.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	84.3	129	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.7	107	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	102	127	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	112	129	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	129	102	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	67.1	68.6	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	68.6	89.4	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	82.0	67.1	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105	111	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	111	105	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	94.4	105	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	121	136	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	136	85.1	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	141	121	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	80.9	118	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	83.3	80.9	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	89.7	83.3	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	137	136	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	143	84.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	84.9	137	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	110	131	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	131	124	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	98.1	110	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	102	95.5	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	95.5	96.6	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	95.6	102	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	103	107	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	104	99.6	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	99.6	103	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	100	101	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	101	102	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	102	103	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	87.9	103	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	93.3	98.8	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	98.8	87.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	101	112	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	112	96.8	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	127	101	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	105	94.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	118	93.2	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	93.2	105	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	104	105	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	105	110	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111661

Included Lab Sample IDs: 2318135, 2318136, 2318137, 2318138, 2318139, 2318140, 2318141, 2318142, 2318143, 2318144, 2318164, 2318165, 2318166, 2318167, 2318168, 2318169, 2318170, 2318171, 2318172, 2318173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	108	104	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	102	96.6	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	112	102	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	96.6	90.6	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	96.4	98.0	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	98.0	103	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	98.5	96.4	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	92.6	97.7	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	97.7	98.0	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	98.0	97.5	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	107	119	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	119	95.8	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	81.5	107	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	120	126	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	150	89.8	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	89.8	120	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	104	86.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	117	91.6	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	91.6	104	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	104	94.4	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	82.1	108	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	94.4	82.1	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	105	109	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	109	94.1	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	119	105	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	103	113	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	111	81.8	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	113	111	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	102	94.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	93.0	102	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	94.9	93.0	P/P	60 - 160
Perfluorononanoic acid (PFNA)	108	71.8	P/P	60 - 160
Perfluorononanoic acid (PFNA)	71.8	91.4	P/P	60 - 160
Perfluorononanoic acid (PFNA)	91.4	95.5	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	93.5	99.6	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	95.9	100	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	99.6	95.9	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	102	153	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	131	98.3	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	153	131	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	101	102	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	102	102	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	105	101	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	103	92.3	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	122	103	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	125	122	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	106	90.1	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	125	106	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	90.1	115	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	91.7	92.8	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111661

Included Lab Sample IDs: 2318135, 2318136, 2318137, 2318138, 2318139, 2318140, 2318141, 2318142, 2318143, 2318144, 2318164, 2318165, 2318166, 2318167, 2318168, 2318169, 2318170, 2318171, 2318172, 2318173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorotetradecanoic acid (PFTeA)	94.1	98.4	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	98.4	91.7	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	102	91.2	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	91.2	96.3	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	96.3	102	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	108	93.0	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	111	108	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	112	111	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A111663

Included Lab Sample IDs: 2318130, 2318131, 2318132, 2318133, 2318134

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	115	95.0	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.0	95.2	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	80.2	113	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	96.1	80.2	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	79.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	79.3	120	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	86.3	112	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	94.2	86.3	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	65.3	73.7	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	65.4	65.3	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	110	97.8	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	97.8	90.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	154	62.9	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	62.9	91.8	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	116	78.8	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	76.6	116	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	111	114	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	152	111	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	123	128	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	127	123	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	101	105	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	88.3	101	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	106	96.4	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	95.8	106	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	100	93.8	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	96.8	100	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	109	87.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	87.1	89.1	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	114	110	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.9	114	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	103	80.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	93.6	103	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	106	110	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	110	99.1	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	103	107	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	107	99.9	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111663

Included Lab Sample IDs: 2318130, 2318131, 2318132, 2318133, 2318134

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorobutanoic acid (PFBA)	100	88.7	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	88.7	99.9	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	105	84.4	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	84.4	98.4	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	139	86.2	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	86.2	98.7	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	118	128	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	133	118	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	72.9	98.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	98.2	119	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	103	123	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	123	87.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	111	100	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	83.2	111	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	103	90.7	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	90.7	90.2	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	103	96.1	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	96.1	86.8	P/P	60 - 160
Perfluorononanoic acid (PFNA)	85.6	110	P/P	60 - 160
Perfluorononanoic acid (PFNA)	87.8	85.6	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	103	90.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	90.7	94.3	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	120	147	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	147	124	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	102	111	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	111	84.3	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	109	114	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	114	80.0	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	115	127	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	95.5	115	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	111	112	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	112	94.9	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	106	119	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	85.3	106	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	112	143	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	91.2	112	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A111738

Included Lab Sample IDs: 2318174, 2318175, 2318176, 2318177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	113	92.9	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.7	86.5	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.9	92.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	100	72.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	72.6	93.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.0	153	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	104	92.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	113	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	92.3	105	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111738

Included Lab Sample IDs: 2318174, 2318175, 2318176, 2318177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	119	126	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	126	86.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	140	119	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	103	92.8	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	70.2	103	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	92.8	120	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	104	99.4	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	98.8	104	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	99.4	102	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	67.4	90.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.2	67.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	90.4	88.2	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	67.1	87.1	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	87.1	111	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	96.6	67.1	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	115	96.0	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.5	137	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	96.0	93.5	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	102	145	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	145	147	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	147	156	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	139	94.5	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	94.5	97.0	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	95.5	139	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	102	102	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	102	87.9	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	110	102	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	104	92.6	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	104	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	92.6	100	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	88.2	93.5	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	88.7	88.2	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	93.5	98.6	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	107	108	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	108	118	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	132	107	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	93.1	93.1	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	94.1	95.1	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	95.1	93.1	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	120	97.3	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	97.3	108	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	99.2	120	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	105	97.1	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	97.1	98.6	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	98.6	103	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	101	91.4	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	102	101	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	99.6	102	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	108	93.5	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	90.0	97.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	93.5	90.0	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111738

Included Lab Sample IDs: 2318174, 2318175, 2318176, 2318177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorodecanoic acid (PFDA)	118	77.7	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	77.7	88.1	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	88.1	159	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	108	125	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	129	108	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	95.7	129	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	104	118	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	119	95.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	95.9	104	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	73.8	80.8	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	80.8	98.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	98.5	147	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	102	110	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	131	99.5	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	99.5	102	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	118	63.9	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	62.0	118	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	63.9	96.4	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	102	98.0	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	87.6	90.0	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	98.0	87.6	P/P	60 - 160
Perfluorononanoic acid (PFNA)	116	89.3	P/P	60 - 160
Perfluorononanoic acid (PFNA)	121	116	P/P	60 - 160
Perfluorononanoic acid (PFNA)	72.6	121	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	100	91.8	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	108	100	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	99.2	108	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	104	128	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	108	104	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	128	119	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	105	86.0	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	86.0	132	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	97.4	105	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	76.2	128	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	87.8	96.8	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	96.8	76.2	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	109	110	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	110	77.3	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	77.3	132	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	120	95.2	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	90.8	120	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	95.2	114	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	108	96.1	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	96.1	97.9	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	97.9	130	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	122	124	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	124	100	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	100	108	P/P	60 - 160

Quality Assurance Report Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
DEP SOP: LC-001-3	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	74.9	70.5	60.6		15.0
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.5	88.5	74.5		17.1
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	90.6	84.5	70.8		17.7
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	114	89.0	79.8		10.8
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	80.9	136	119		13.4
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	131	98.9		28.2
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102	93.9	108		8.42
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	153	81.4	106		26.1
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	109	90.5	105		15.0
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.3				
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	97.8	109	127		15.2
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	88.2	122	99.0		20.7
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	76.6	40.2	33.5		18.1
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	95.2	74.1	73.1		1.31
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	77.8	107	87.5		20.3
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	84.3	93.9	82.4		13.1
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	117	126	105		18.5
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	112	104	106		2.43
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.9	113	93.8		18.3
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	102	112	118		5.31
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	68.9	116	124		6.25
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.4	72.4	75.7		4.48
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.6	73.8	88.7		18.2
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	93.5	111	131		16.5
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	119	87.6	97.1		10.2
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	121	142	127		10.8
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	140	107	125		15.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
DEP SOP: LC-001-3	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	130	108	114		5.31
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	59.8	108	99.7		8.18
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	103	76.9	57.7		28.4
	Perfluoro-1-butane sulfonamide (FBSA)	157				8.96
	Perfluoro-1-butane sulfonamide (FBSA)	133	111	119		7.27
	Perfluoro-1-butane sulfonamide (FBSA)	133	117	112		4.48
	Perfluoro-1-hexane sulfonamide (FHxSA)	152				4.73
	Perfluoro-1-hexane sulfonamide (FHxSA)	156	120	105		13.3
	Perfluoro-1-hexane sulfonamide (FHxSA)	160	122	120		1.79
	Perfluoro-1-octane sulfonamide (FOSA)	104	91.1	90.0		1.24
	Perfluoro-1-octane sulfonamide (FOSA)	124	117	109		7.17
	Perfluoro-1-octane sulfonamide (FOSA)	99.4	109	106		3.02
	Perfluoro-3-methoxypropanoic acid (PFMPA)	88.1	110	108		1.59
	Perfluoro-3-methoxypropanoic acid (PFMPA)	105	132	130		1.56
	Perfluoro-3-methoxypropanoic acid (PFMPA)	84.2	103	100		2.37
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	102				10.8
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	96.8	110	123		10.9
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	123	122	93.3		26.6
	Perfluoro-4-methoxybutanoic acid (PFMBA)	112	148	144		3.27
	Perfluoro-4-methoxybutanoic acid (PFMBA)	126	119	139		16.0
	Perfluoro-4-methoxybutanoic acid (PFMBA)	119	123	111		10.3
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	99.1	112	132		16.5
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	109	111	123		9.95
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	108	117	112		4.71
	Perfluorobutanesulfonic acid (PFBS)	103				17.9
	Perfluorobutanesulfonic acid (PFBS)	101	113	90.4		14.7
	Perfluorobutanesulfonic acid (PFBS)	108	117	134		13.0
	Perfluorobutanoic acid (PFBA)	89.1				1.81
	Perfluorobutanoic acid (PFBA)	108	123	126		2.23
	Perfluorobutanoic acid (PFBA)	110	118	101		15.9
	Perfluorodecanesulfonic acid (PFDS)	78.3	69.2	59.8		14.5
	Perfluorodecanesulfonic acid (PFDS)	95.6	88.8	83.6		6.04

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	SMP	LCS	MS
DEP SOP: LC-001-3	Perfluorodecanesulfonic acid (PFDS)	92.0	88.8	79.5		11.1
	Perfluorodecanoic acid (PFDA)	88.2	106	110		4.20
	Perfluorodecanoic acid (PFDA)	123	110	106		3.31
	Perfluorodecanoic acid (PFDA)	119	112	125		10.2
	Perfluorododecanoic acid (PFDoA)	130	97.7	118		18.8
	Perfluorododecanoic acid (PFDoA)	101	143	148		3.46
	Perfluorododecanoic acid (PFDoA)	112	124	110		12.5
	Perfluoroheptanesulfonic acid (PFHpS)	90.7				4.04
	Perfluoroheptanesulfonic acid (PFHpS)	92.5	107	110		2.83
	Perfluoroheptanesulfonic acid (PFHpS)	104	116	93.4		21.4
	Perfluoroheptanoic acid (PFHpA)	95.6				46.6
	Perfluoroheptanoic acid (PFHpA)	104	119	102		12.5
	Perfluoroheptanoic acid (PFHpA)	117	78.3	86.3		9.75
	Perfluorohexanesulfonic acid (PFHxS)	94.3				9.75
	Perfluorohexanesulfonic acid (PFHxS)	97.1	107	126		8.97
	Perfluorohexanesulfonic acid (PFHxS)	96.8	125	93.3		29.0
	Perfluorohexanoic acid (PFHxA)	110				15.6
	Perfluorohexanoic acid (PFHxA)	99.8	113	138		17.8
	Perfluorohexanoic acid (PFHxA)	101	127	107		17.5
	Perfluorononanesulfonic acid (PFNS)	81.0	81.4	79.8		1.97
	Perfluorononanesulfonic acid (PFNS)	109	108	95.5		12.3
	Perfluorononanesulfonic acid (PFNS)	90.7	109	91.0		18.5
	Perfluorononanoic acid (PFNA)	89.5				4.95
	Perfluorononanoic acid (PFNA)	121	113	105		7.25
	Perfluorononanoic acid (PFNA)	67.4	112	99.4		12.0
	Perfluorooctanesulfonic acid (PFOS)	87.6				
	Perfluorooctanesulfonic acid (PFOS)	108	100	54.5		17.9
	Perfluorooctanesulfonic acid (PFOS)	107	107	113		6.13
	Perfluorooctanoic acid (PFOA)	127				3.21
	Perfluorooctanoic acid (PFOA)	149	120	134		7.60
	Perfluorooctanoic acid (PFOA)	105	90.0	92.9		3.24
	Perfluoropentanesulfonic acid (PFPeS)	112				15.0
	Perfluoropentanesulfonic acid (PFPeS)	104	126	111		11.7
	Perfluoropentanesulfonic acid (PFPeS)	117	117	115		2.19
	Perfluoropentanoic acid (PFPeA)	102				9.44
	Perfluoropentanoic acid (PFPeA)	101	94.8	95.8		0.838
	Perfluoropentanoic acid (PFPeA)	79.0	96.7	94.2		2.57
	Perfluoropropanesulfonic acid (PFPrS)	134				26.4
	Perfluoropropanesulfonic acid (PFPrS)	106	97.5	100		1.98

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		MS
					LCS	SMP	
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	108	120	131			8.93
	Perfluorotetradecanoic acid (PFTeA)	118	100	107			6.12
	Perfluorotetradecanoic acid (PFTeA)	110	116	108			6.77
	Perfluorotetradecanoic acid (PFTeA)	140	127	118			7.86
	Perfluorotridecanoic acid (PFTriA)	128	84.2	105			21.5
	Perfluorotridecanoic acid (PFTriA)	116	87.3	85.0			2.75
	Perfluorotridecanoic acid (PFTriA)	130	114	98.8			13.9
	Perfluoroundecanoic acid (PFUnA)	113	100	89.7			11.2
	Perfluoroundecanoic acid (PFUnA)	107	136	132			2.85
	Perfluoroundecanoic acid (PFUnA)	116	102	103			0.917

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2318130, 2318131, 2318132, 2318133, 2318134, 2318135, 2318136, 2318137, 2318138, 2318139, 2318140, 2318141, 2318142, 2318143, 2318144, 2318164, 2318165, 2318166, 2318167, 2318168, 2318169, 2318170, 2318171, 2318172, 2318173, 2318174, 2318175, 2318176, 2318177

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	04/12/2022	04/21/2022 09:00	Hoor Shaik	04/22/2022 06:59	Mohammad Ghaffari	2318133
	04/12/2022	04/21/2022 09:00	Hoor Shaik	04/22/2022 07:09	Mohammad Ghaffari	2318134
	04/12/2022	04/21/2022 09:00	Hoor Shaik	04/22/2022 08:47	Mohammad Ghaffari	2318130
	04/12/2022	04/21/2022 09:00	Hoor Shaik	04/22/2022 08:57	Mohammad Ghaffari	2318131
	04/12/2022	04/21/2022 09:00	Hoor Shaik	04/22/2022 09:08	Mohammad Ghaffari	2318132
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 01:04	Mohammad Ghaffari	2318135
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 01:15	Mohammad Ghaffari	2318140
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 01:26	Mohammad Ghaffari	2318141
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 01:48	Mohammad Ghaffari	2318169
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 01:58	Mohammad Ghaffari	2318170
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 02:09	Mohammad Ghaffari	2318136
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 02:20	Mohammad Ghaffari	2318137
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 02:31	Mohammad Ghaffari	2318138
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 02:42	Mohammad Ghaffari	2318139
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 02:52	Mohammad Ghaffari	2318142
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 03:03	Mohammad Ghaffari	2318164
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 03:25	Mohammad Ghaffari	2318165
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 03:36	Mohammad Ghaffari	2318166
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 03:46	Mohammad Ghaffari	2318167
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 03:57	Mohammad Ghaffari	2318168
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 04:08	Mohammad Ghaffari	2318171
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 04:19	Mohammad Ghaffari	2318172
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 04:30	Mohammad Ghaffari	2318173
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 12:10	Mohammad Ghaffari	2318143
	04/12/2022	04/22/2022 11:00	Hoor Shaik	04/24/2022 12:21	Mohammad Ghaffari	2318144
	04/12/2022	04/26/2022 09:00	Hoor Shaik	04/27/2022 08:49	Mohammad Ghaffari	2318177
	04/12/2022	04/26/2022 09:00	Hoor Shaik	04/27/2022 11:31	Mohammad Ghaffari	2318174
	04/12/2022	04/26/2022 09:00	Hoor Shaik	04/27/2022 11:42	Mohammad Ghaffari	2318175
	04/12/2022	04/26/2022 09:00	Hoor Shaik	04/27/2022 12:03	Mohammad Ghaffari	2318176