

2440 Deming Way, Middleton, WI 53562-1562

PROJECT: MSN PFAS BRRTS #02-13-584472 (10/11)
2309936-200091.01 DATE: 2/5/2024

SUBJECT: Starkweather Creek PFAS Sampling Summary for WDNR TRANSMITTAL ID: 00006

PURPOSE: For your use and distribution VIA: Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Tim Astfalk 2440 Deming Way Middleton WI 53562-1562 United States	Mead & Hunt, Inc.	tim.astfalk@meadhunt.com	608-443-0482

TO

NAME	COMPANY	EMAIL	PHONE
Mike Kirchner 4000 International Lane Madison WI 53704 United States	Dane County Regional Airport	kirchner@msnairport.com	608-246-3380

REMARKS: Here you go Mike. The record drawings for the storm sewer repairs and lab reports are included.

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	2/5/2024	DCRA Creek Sampling Summary w Attachments.pdf	

COPIES:

Tim Astfalk (Mead & Hunt, Inc.)

Dane County Regional Airport Starkweather Creek Sampling Summary

This document provides a summary of storm sewer system repairs and Starkweather Creek (Creek) monitoring conducted at Dane County Regional Airport (DCRA). Storm sewer repairs were conducted in response to BRRTS # 02-13-584472, to reduce the discharge of per- and polyfluorinated alkyl substance (PFAS) constituents in stormwater at the airport. The Creek monitoring was conducted to document changes in the PFAS discharges after the storm sewer rehabilitation.

Storm Sewer System Repairs

Previous investigations had identified outfalls 21 and 32 as having elevated concentrations of PFAS in their discharges. Both outfalls have continuous flow from groundwater that enters the storm sewer collection system. Additional storm water sampling and televising in the storm sewer pipes connected to these outfalls, identified potential pipe defects where groundwater with elevated PFAS concentrations were likely entering the storm sewer system. Pipe rehabilitation was conducted to reduce the infiltration of groundwater into the storm sewer system. The pipe restoration that was completed are summarized in Table 1. This work was started in December 2022 and was completed in May 2023. Record drawings showing where the storm sewer rehabilitation work was completed is included in this report as Attachment 1.

Table 1. DCRA Storm Sewer Restoration Summary.

Item	Quantity
Cast In Place Pipe Liner	4,815 feet
Internal Joint Seals	57 each
Abandon and/or Replace Storm Sewer	257 feet

Outfall and Creek Monitoring

Flow measurements and PFAS sampling was conducted at six (6) locations as part of this project. The monitoring locations are shown in Figure 1. Monitoring was conducted on three (3) dates before the storm sewer restoration work and four (4) were conducted after the restoration work was completed. A detailed description of the monitoring events, methods, and results are presented in Attachment 2. A summary of the flow monitoring is presented in Table 2. Flow data was not available for Stations 7 and 10 due to ice cover on the creek during the November 29, 2023, monitoring event. In addition to the Creek and outfall samples, one field blank and a duplicate were collected during each sampling event to evaluate sampling and equipment decontamination procedures.



Figure 1 PFAS SAMPLING LOCATIONS

11/10/2023 2:27:22 PM
 X:\2023\08\REFMASTER\WORKSPACE\AREAS\02023\PFAS_TELVEISE.DWG

Table 2. Outfall and Creek Flow Monitoring Results.

Location	June 30 2021	July 13 2021	Aug 3 2021	June 6 2023	July 18 2023	Aug 2 2023	Nov 29 2023
Outfall 32	0.84	0.46	0.43	0.72	0.82	0.75	0.75
Outfall 21	0.14	0.03	0.03	0.04	0.06	0.04	0.03
Station 10	0.17	0.25	0.21	0.36	0.50	.024	NA
Station 11	6.89	4.1	2.15	3.57	4.12	4.46	5.29
Station 4A	8.37	3.77	2.1	4.31	4.66	5.13	5.21
Station 7	8.70	3.53	2.23	3.69	6.71	6.01	NA

Summary of Reported Results

Samples collected before the storm sewer repairs were submitted to Vista Analytical Laboratory in El Dorado Hills, California for PFAS analysis using method 537M. Samples collected after the storm sewer repair were submitted to Eurofins Chicago Laboratory in University Park, Illinois for PFAS analysis using method 537M. The laboratory PFAS results reports are presented in Attachment 3 and summary of all PFAS compounds detected are presented in Attachment 4. The reported PFOA, PFOS and Total PFAS concentrations for samples collected are shown in Table 3.

Table 3. PFOA, PFOS, and Total PFAS Concentration Results (ng/l).

Outfall Or Station	Compound	Jun. 30 2021	Jul. 13, 2021	Aug.3 2021	Jun. 6 2023	Jul. 18 2023	Aug. 2 2023	Nov.29 2023	Avg. Before	Avg. After	% Change
Outfall 32	PFOA	19	92	89	62	64	52	75	66	63	-5%
Outfall 32	PFOS	133	447	450	350	470	460	450	343	433	26%
Outfall 32	Total PFAS	316	1,184	1,119	895	1,064	1,015	1,118	873	1,023	17%
Outfall 21	PFOA	181	856	891	805	740	785	790	642	780	21%
Outfall 21	PFOS	3,870	17,500	24,800	14,500	13,500	11,500	14,000	15,390	13,375	-13%
Outfall21	Total PFAS	7,919	38,976	44,037	31,188	29,799	26,558	31,628	30,311	29,793	-2%
Station 10	PFOA	162	305	303	410	280	300	300	257	323	26%
Station 10	PFOS	1,960	2,650	2,100	4,900	3,100	2,400	2,400	2,237	3,200	43%
Station 10	Total PFAS	3,973	7,523	6,205	10,277	7,548	6,134	6,337	5,900	7,574	28%
Station 11	PFOA	14	27	30	22	19	19	9	24	17	-28%
Station 11	PFOS	35	51	28	68	73	90	25	38	64	69%
Station 11	Total PFAS	142	221	185	235	237	263	97	182	208	14%
Station 4A	PFOA	34	82	57	45	48	28	22	58	36	-38%
Station 4A	PFOS	314	581	302	230	290	150	150	399	205	-49%
Station 4A	Total PFAS	718	1,508	863	684	837	451	416	1,029	597	-42%
Station 7	PFOA	24	47	52	56	32	34	22	41	36	-12%
Station 7	PFOS	155	256	193	400	190	210	120	201	230	14%
Station 7	Total PFAS	415	743	576	955	554	574	367	578	612	6%

The mass loading for the PFAS compounds were calculated by multiplying the concentration by flow rate. The calculated mass loadings for all detected PFAS compounds are presented in Attachment 5. Where no flow data was available (Stations 7 and 10 during the November 29, 2023, monitoring event), the mass loading was not calculated. The reported PFOA, PFOS and PFAS mass loadings for samples collected with flow rates are shown in Table 4.

Table 4. PFOA, PFOS, and Total Mass Loading Results (mg/day).

Outfall Or Station	Compound	Jun. 30 2021	Jul. 13 2021	Aug. 3 2021	Jun. 6 2023	Jul. 18 2023	Aug. 2 2023	Nov.29 2023	Avg. Before	Avg. After	% Change
Outfall 32	PFOA	39	103	93	109	128	95	138	78	118	50%
Outfall 32	PFOS	273	503	473	617	943	844	826	417	807	94%
Outfall 32	Total PFAS	649	1,333	1,178	1,576	2,134	1,863	2,052	1,053	1,906	81%
Outfall 21	PFOA	62	63	72	79	109	77	58	65	81	23%
Outfall 21	PFOS	1,326	1,284	1,512	1,419	1,982	1,125	1,028	1,374	1,388	1%
Outfall21	Total PFAS	2,712	2,861	2,955	3,052	4,374	2,599	2,321	2,843	3,087	9%
Station 10	PFOA	67	187	156	361	343	176	NA	137	220	61%
Station 10	PFOS	815	1,621	1,079	4,316	3,792	1,409	NA	1,172	2,379	103%
Station 10	Total PFAS	1,652	4,602	3,188	9,051	9,234	3,602	NA	3,147	5,472	74%
Station 11	PFOA	241	268	159	192	192	207	111	223	176	-21%
Station 11	PFOS	587	513	146	594	736	982	324	415	659	59%
Station 11	Total PFAS	2,391	2,214	971	2,053	2,384	2,867	1,250	1,859	2,139	15%
Station 4A	PFOA	702	753	291	475	547	351	280	582	413	-29%
Station 4A	PFOS	6,430	5,359	1,552	2,425	3,306	1,883	1,912	4,447	2,382	-46%
Station 4A	Total PFAS	14,694	13,905	4,433	7,216	9,540	5,660	5,302	11,011	6,930	-37%
Station 7	PFOA	500	408	286	506	525	500	NA	398	383	-4%
Station 7	PFOS	3,299	2,211	1,053	3,611	3,119	3,088	NA	2,188	2,455	12%
Station 7	Total PFAS	8,826	6,417	3,140	8,622	9,101	8,438	NA	6,128	6,540	7%

Conclusions

Based on the results of the flow monitoring and sampling conducted in this study, it has been determined that:

- The PFAS concentrations and mass loadings varied greatly from one sampling event to another.
- The average PFAS concentrations and mass loadings appeared to increase after the storm sewer rehabilitation work at outfalls 21 and 32 and at Stations 10 and 11.
- The average PFAS concentrations and mass loadings at Station 4A, located immediately downstream of DCRA, appeared to decrease after the storm sewer rehabilitation work. The average total PFAS concentration decrease 42% and the average total PFAS mass loading decreased 37%.
- The average PFAS concentrations and mass loadings at Station 7 appeared to have little change after the storm sewer rehabilitation work.

Attachment 1
Storm Sewer Rehabilitation Record Drawings

DANE COUNTY REGIONAL AIRPORT

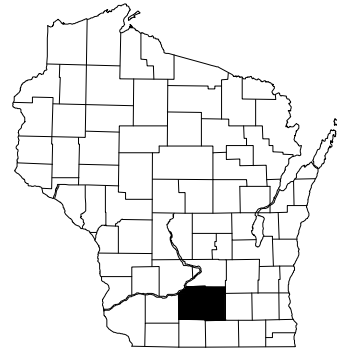
STORM SEWER REHABILITATION

MSN1015 / SOP-103

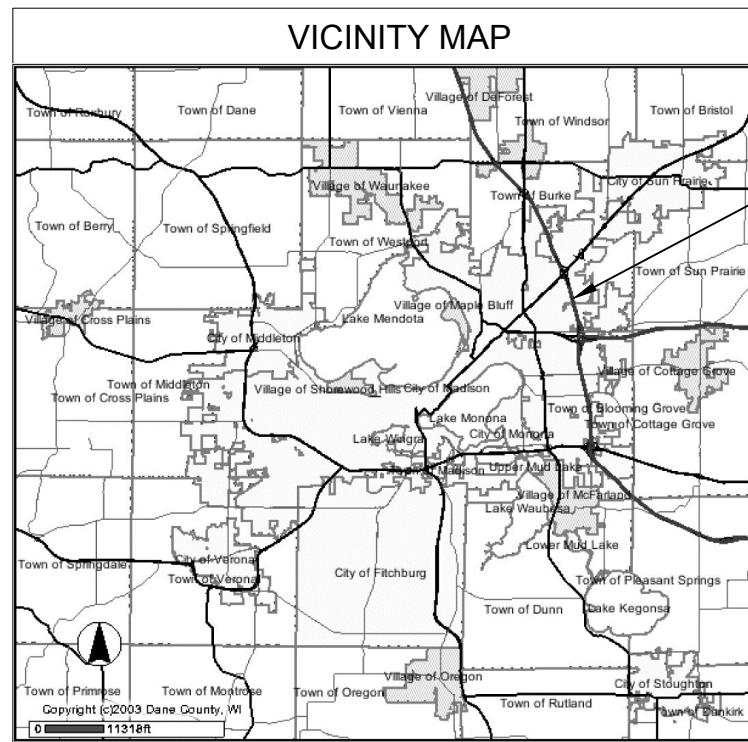
4000 INTERNATIONAL LANE

MADISON WI 53704

APRIL 22, 2022

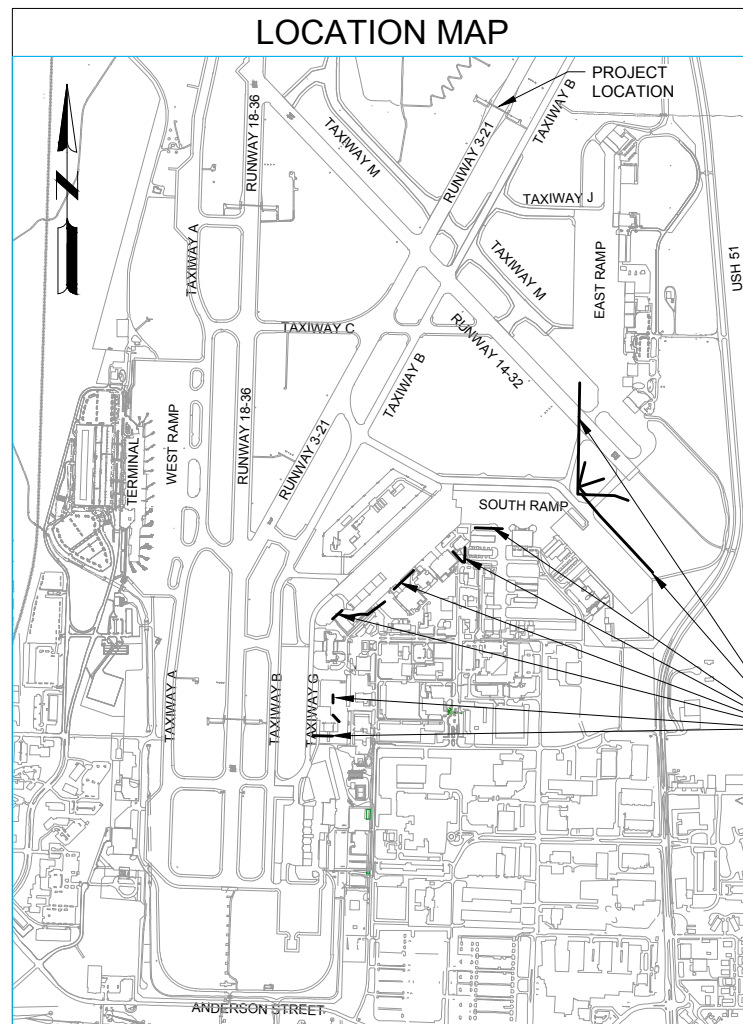


DANE COUNTY



VICINITY MAP

PROJECT LOCATION



LOCATION MAP

PROJECT LOCATION

INDEX OF DRAWINGS		
PAGE #	SHEET #	SHEET TITLE
1	G-001	COVER SHEET
2	G-080	POINTS OF INTEREST
3	G-081	CONSTRUCTION OPERATIONS & SAFETY PHASING PLAN
4	G-091	CONSTRUCTION OPERATIONS GENERAL NOTES
5	X-101	STORM SEWER REHABILITATION - WORK AREA 1
6	X-102	STORM SEWER REHABILITATION - WORK AREA 2
7	X-103	STORM SEWER REHABILITATION - WORK AREA 2
8	X-104	STORM SEWER REHABILITATION - WORK AREA 3
9	X-105	STORM SEWER REHABILITATION - WORK AREA 4

BASE BID - PIPE REHABILITATION

BID ITEM	DESCRIPTION	QTY	UNIT	AS-BUILT
C105.010	MOBILIZATION	1	LS	1
628.15040	SILT FENCE	1020	LF	519
628.15200	SILT FENCE MAINTENANCE	1020	LF	0
X330101	STORM SEWER CLEANING 12" DIAMETER	2043	LF	1,795
X330102	STORM SEWER CLEANING 15" DIAMETER	375	LF	408
X330103	STORM SEWER CLEANING 18" DIAMETER	619	LF	305
X330104	STORM SEWER CLEANING 24" DIAMETER	2298	LF	2,307
X330105	STORM SEWER CLEANING 30" DIAMETER	72	LF	0
X330106	STORM SEWER CLEANING 36" DIAMETER	85	LF	147
X330107	STORM SEWER CLEANING 72" DIAMETER	96	LF	0
X330108	STORM SEWER CIPP 12" DIAMETER	2043	LF	1,795
X330109	STORM SEWER CIPP 15" DIAMETER	375	LF	408
X330110	STORM SEWER CIPP 18" DIAMETER	619	LF	305
X330111	STORM SEWER CIPP 24" DIAMETER	2298	LF	2,307
X330112	STORM SEWER CIPP 30" DIAMETER	72	LF	0
X330113	STORM SEWER MECHANICAL JOINT SEAL 36" DIAMETER	15	EA	47
X330114	STORM SEWER MECHANICAL JOINT SEAL 72" DIAMETER	11	EA	10
X330115	REINSTATING LATERALS	8	EA	7

CHANGE ORDER NO. 1

BID ITEM	DESCRIPTION	QTY	UNIT	AS-BUILT
X01	CONCRETE PIPE CONNECTION REHABILITATION	1	LS	1
X02	BOILER CURING 12" PIPE LINER	1	LS	1
X03	DEWATERING ACTIVITIES	3330.72	DOL	3330.72

CONSTRUCTION DATA

PRIME CONTRACTOR
 VISU-SEWER INC. _____

MAJOR SUBCONTRACTORS AND/OR SUPPLIERS
 S & L UNDERGROUND, INC. _____
 MESCH SEALING COMPANY, INC. _____

WORK: STARTED FEB 2023 COMPLETED JUNE 2023

PROJECT ENGINEER
 TERRY DONOVAN, P.E. _____
 TIM ASTFALK, P.E. _____

WISCONSIN DEPARTMENT OF TRANSPORTATION BUREAU OF AERONAUTICS	MEAD & HUNT, INC. Middleton, Wisconsin
DESIGN PHASE APPROVED BY: _____	SUBMITTED BY: _____
AIRPORT DEVELOPMENT ENGINEER DATE: _____	DATE: _____ RECOMMENDED FOR APPROVAL
AIRPORT ENGINEERING SECTION CHIEF DATE: _____	DATE: _____
"AS CONSTRUCTED" DRAWING APPROVED BY: _____	"AS CONSTRUCTED" APPROVAL _____
AIRPORT DEVELOPMENT ENGINEER DATE: _____	DATE: _____

Mead & Hunt
 Mead and Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-6380
 meadhunt.com

These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses, and expenses, including attorney's fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

DANE COUNTY REGIONAL AIRPORT
 STORM SEWER REHABILITATION

4000 INTERNATIONAL LANE
 MADISON WISCONSIN 53704

ISSUED
 06/10/22 BID SET

RECORD DRAWING

12-20-2023
 THIS IS A CONSTRUCTION RECORD DRAWING BASED ON INFORMATION SUPPLIED BY THE CONTRACTOR TO MEAD & HUNT, INC. ASSUMES NO LIABILITY FOR ACCURACY OF THE INFORMATION SUPPLIED.

PROJECT NO.: MSN1015/SOP-103
 MMH NO.: 2309936-200091.01
 DATE: JUNE 10, 2022
 DESIGNED BY: TJA
 DRAWN BY: TJR
 CHECKED BY: TPD
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 COVER SHEET

SHEET NO. 1 of 9

G-001

These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses, and expenses, including attorney's fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

DANE COUNTY REGIONAL AIRPORT STORM SEWER REHABILITATION

4000 INTERNATIONAL LANE
MADISON WISCONSIN 53704

ISSUED
06/10/22 BID SET

RECORD DRAWING

12-20-2023

THIS IS A CONSTRUCTION RECORD DRAWING BASED ON INFORMATION SUPPLIED BY THE CONTRACTOR TO MEAD & HUNT, INC. MEAD & HUNT, INC. ASSUMES NO LIABILITY FOR ACCURACY OF THE INFORMATION SUPPLIED.

PROJECT NO.: MSN1015/SOP-103

MMH NO.: 2309936-200091.01

DATE: JUNE 10, 2022

DESIGNED BY: TJA

DRAWN BY: TJR

CHECKED BY: TPD

DO NOT SCALE DRAWINGS

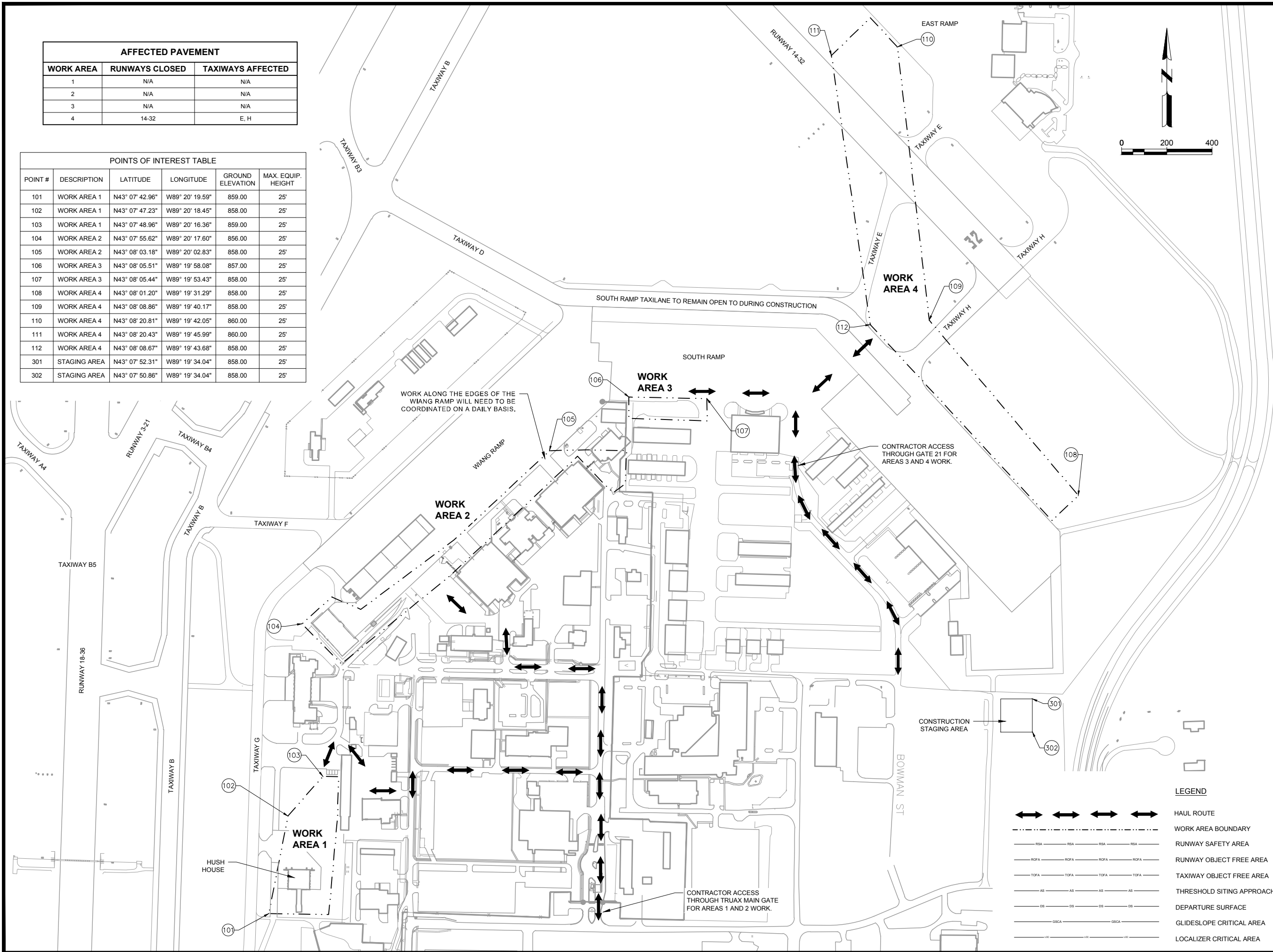
SHEET CONTENTS
POINTS OF INTEREST

SHEET NO. 2 of 9

G-080

AFFECTED PAVEMENT		
WORK AREA	RUNWAYS CLOSED	TAXIWAYS AFFECTED
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	14-32	E, H

POINTS OF INTEREST TABLE					
POINT #	DESCRIPTION	LATITUDE	LONGITUDE	GROUND ELEVATION	MAX. EQUIP. HEIGHT
101	WORK AREA 1	N43° 07' 42.96"	W89° 20' 19.59"	859.00	25'
102	WORK AREA 1	N43° 07' 47.23"	W89° 20' 18.45"	858.00	25'
103	WORK AREA 1	N43° 07' 48.96"	W89° 20' 16.36"	859.00	25'
104	WORK AREA 2	N43° 07' 55.62"	W89° 20' 17.60"	856.00	25'
105	WORK AREA 2	N43° 08' 03.18"	W89° 20' 02.83"	858.00	25'
106	WORK AREA 3	N43° 08' 05.51"	W89° 19' 58.08"	857.00	25'
107	WORK AREA 3	N43° 08' 05.44"	W89° 19' 53.43"	858.00	25'
108	WORK AREA 4	N43° 08' 01.20"	W89° 19' 31.29"	858.00	25'
109	WORK AREA 4	N43° 08' 08.86"	W89° 19' 40.17"	858.00	25'
110	WORK AREA 4	N43° 08' 20.81"	W89° 19' 42.05"	860.00	25'
111	WORK AREA 4	N43° 08' 20.43"	W89° 19' 45.99"	860.00	25'
112	WORK AREA 4	N43° 08' 08.67"	W89° 19' 43.68"	858.00	25'
301	STAGING AREA	N43° 07' 52.31"	W89° 19' 34.04"	858.00	25'
302	STAGING AREA	N43° 07' 50.86"	W89° 19' 34.04"	858.00	25'



PHASING GENERAL NOTES:

- ALL CONSTRUCTION WORK INCLUDING PUNCH LIST AND FINAL DOCUMENTATION SHALL BE COMPLETED BY JUNE 1, 2023.
- ALL AREAS OUTSIDE OF CONSTRUCTION LIMITS AND HAUL ROUTES CROSSING PAVEMENT OPEN TO AIRCRAFT TRAFFIC MUST BE SWEEPED AND KEPT CLEAN OF CONSTRUCTION DEBRIS AND FOD.
- THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT AND ENGINEER ON DEACTIVATING RUNWAY 14-32 AND TAXIWAY CIRCUITS AS SHOWN ON THIS SHEET.
- CONTRACTOR SHALL SUBMIT SCHEDULE OF OPERATIONS PRIOR TO BEGINNING CONSTRUCTION.
- SEE SHEET G-091 "CONSTRUCTION OPERATIONS GENERAL NOTES" FOR ADDITIONAL INFORMATION ON BARRICADES, CLOSURE CROSSES, AND OTHER SAFETY AND OPERATIONAL REQUIREMENTS.
- RUNWAY 14-32 (WORK AREA 4) SHALL NOT BE CLOSED DURING EAA AIRVENTURE OSHKOSH (TYPICALLY THE LAST WEEK IN JULY) AND DURING THE EPIC USER GROUP MEETING (TYPICALLY LAST WEEK IN AUGUST).

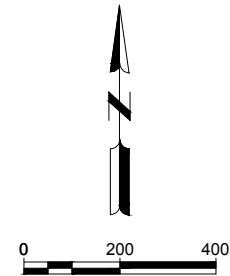
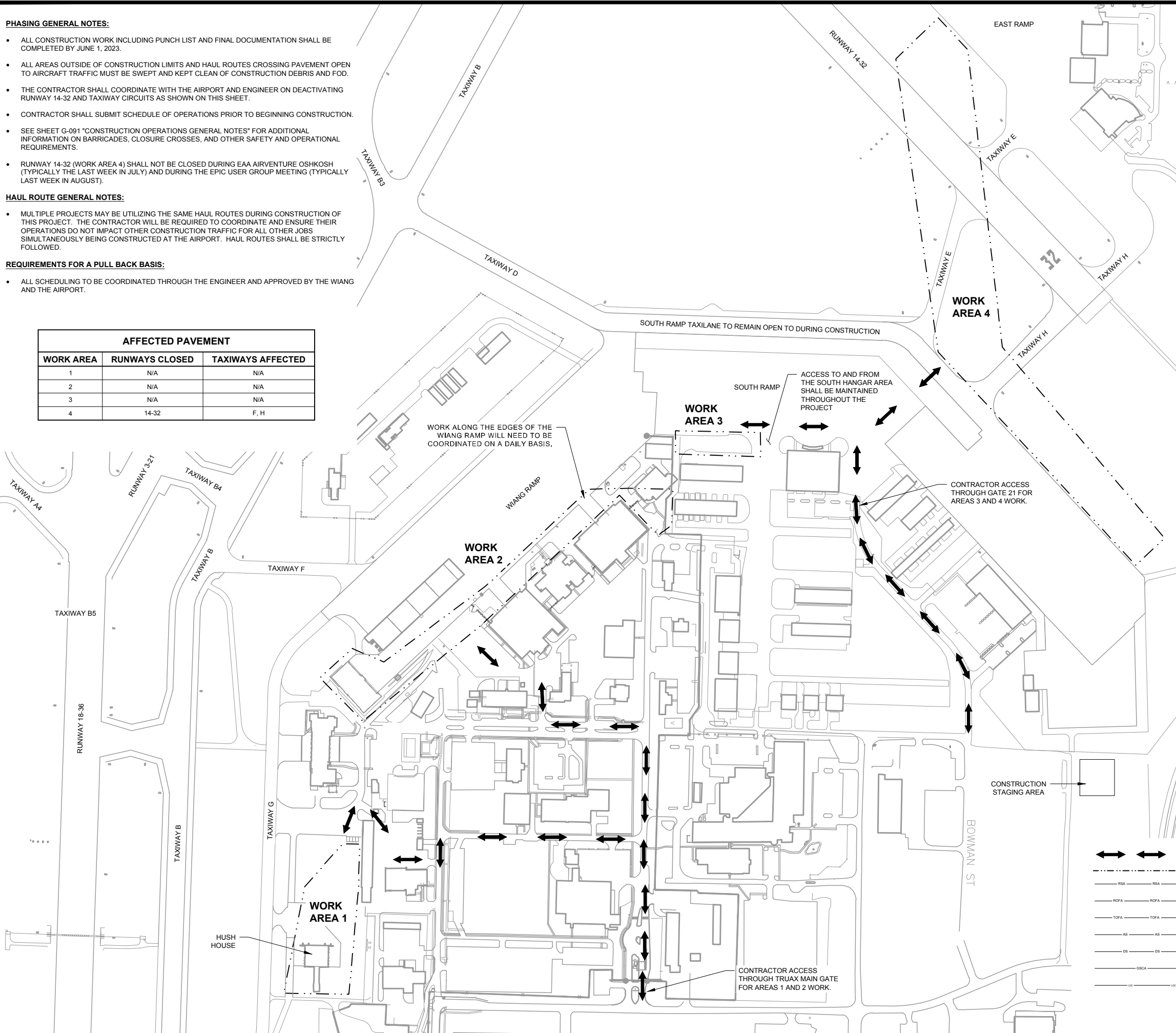
HAUL ROUTE GENERAL NOTES:

- MULTIPLE PROJECTS MAY BE UTILIZING THE SAME HAUL ROUTES DURING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE AND ENSURE THEIR OPERATIONS DO NOT IMPACT OTHER CONSTRUCTION TRAFFIC FOR ALL OTHER JOBS SIMULTANEOUSLY BEING CONSTRUCTED AT THE AIRPORT. HAUL ROUTES SHALL BE STRICTLY FOLLOWED.

REQUIREMENTS FOR A PULL BACK BASIS:

- ALL SCHEDULING TO BE COORDINATED THROUGH THE ENGINEER AND APPROVED BY THE WIANG AND THE AIRPORT.

AFFECTED PAVEMENT		
WORK AREA	RUNWAYS CLOSED	TAXIWAYS AFFECTED
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	14-32	F, H



EFFECTS ON AIRPORT / OPERATIONS DURING PROJECT CONSTRUCTION:

- RUNWAY 18-36 AND RUNWAY 3-21 WILL BE OPEN AT ALL TIMES.
- CONSTRUCTION MAY BE ONGOING AT VARIOUS LOCATIONS ACROSS THE AIRPORT AND BASE. CONTRACTOR SHALL ENSURE THAT THEIR OPERATIONS DON'T HINDER ANY OTHER CONTRACTOR FROM PERFORMING THEIR WORK.

EFFECTS ON AIRPORT / OPERATIONS DURING WORK IN AREA 1:

- WORK SHALL BE COORDINATED WITH THE AIRPORT AND WIANG A MINIMUM OF 2 WEEKS PRIOR TO THE START OF WORK.
- ALL AIRFIELD PAVEMENTS SHALL REMAIN ACTIVE
- CONTRACTOR TO MAINTAIN ACCESS TO HUSH HOUSE AT ALL TIMES.
- CONSTRUCTION ACCESS WILL BE VIA THE TRUAX MAIN GATE.

EFFECTS ON AIRPORT / OPERATIONS DURING WORK IN AREA 2:

- WORK SHALL BE COORDINATED WITH THE AIRPORT AND WIANG A MINIMUM OF 2 WEEKS PRIOR TO THE START OF WORK.
- ALL AIRFIELD PAVEMENTS SHALL REMAIN ACTIVE
- CONTRACTOR TO MAINTAIN ACCESS TO WIANG RAMP AND ASSOCIATED HANGARS AT ALL TIMES.
- CONSTRUCTION ACCESS WILL BE VIA THE TRUAX MAIN GATE

EFFECTS ON AIRPORT / OPERATIONS DURING WORK IN AREA 3:

- WORK SHALL BE COORDINATED WITH THE AIRPORT AND WIANG A MINIMUM OF 2 WEEKS PRIOR TO THE START OF WORK.
- ALL AIRFIELD PAVEMENTS SHALL REMAIN ACTIVE
- CONTRACTOR TO MAINTAIN ACCESS TO HANGARS AT ALL TIMES.
- CONSTRUCTION ACCESS WILL BE VIA GATE 21.

EFFECTS ON AIRPORT / OPERATIONS DURING WORK IN AREA 4:

- WORK SHALL BE COORDINATED WITH THE AIRPORT A MINIMUM OF 2 WEEKS PRIOR TO THE START OF WORK.
- TAXILANE ALONG SOUTH RAMP SHALL BE OPEN THROUGHOUT WORK IN AREA 4.
- ALL WORK WILL BE CONDUCTED IN THE GRASS OUTSIDE RUNWAY AND TAXIWAY SAFETY AREAS.
- CONSTRUCTION ACCESS WILL BE VIA GATE 21.

EFFECTS ON NAVIGATIONAL AIDS DURING CONSTRUCTION:

- THERE ARE NO IMPACTS TO NAVIGATIONAL AIDS DUE TO THIS PROJECT.

LEGEND

	HAUL ROUTE
	WORK AREA BOUNDARY
	RUNWAY SAFETY AREA
	RUNWAY OBJECT FREE AREA
	TAXIWAY OBJECT FREE AREA
	DEPARTURE SURFACE
	THRESHOLD SURFACE APPROACH SURFACE
	GLIDESLOPE CRITICAL AREA
	LOCALIZER CRITICAL AREA

These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses, and expenses, including attorney's fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

**DANE COUNTY REGIONAL AIRPORT
 STORM SEWER REHABILITATION**
 4000 INTERNATIONAL LANE
 MADISON WISCONSIN 53704

ISSUED
 06/10/22 BID SET

RECORD DRAWING
 12-20-2023
 THIS IS A CONSTRUCTION RECORD DRAWING BASED ON INFORMATION SUPPLIED BY THE CONTRACTOR TO MEAD & HUNT, MEAD & HUNT, INC. ASSUMES NO LIABILITY FOR ACCURACY OF THE INFORMATION SUPPLIED.

PROJECT NO: MSN1015/SOP-103
 MMH NO: 2309936-200091.01
 DATE: JUNE 10, 2022
 DESIGNED BY: TJA
 DRAWN BY: TJR
 CHECKED BY: TPD
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 CONSTRUCTION OPERATIONS & SAFETY PHASING PLAN

SHEET NO. 3 of 9

G-081

THE FOLLOWING NOTES ARE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF FAA AC 150/5370-2, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION, ALONG WITH THOSE INCLUDED IN THE PROJECT SPECIFICATIONS.

SAFETY PLAN COMPLIANCE DOCUMENT

- A. THE CONTRACTOR SHALL PREPARE A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) DESCRIBING HOW THE REQUIREMENTS OF THE CONSTRUCTION SAFETY AND PHASING PLAN WILL BE MET. THE SPCD SHALL INCLUDE A CERTIFICATION STATEMENT BY THE CONTRACTOR THAT:
1. INDICATES FULL UNDERSTANDING OF THE OPERATIONAL SAFETY REQUIREMENTS OF THE CONSTRUCTION SAFETY AND PHASING PLAN AND;
 2. ASSERTS NO DEVIATIONS SHALL BE MADE FROM THE APPROVED SAFETY PHASING PLAN AND SPCD UNLESS WRITTEN APPROVAL IS GRANTED BY THE AIRPORT. THE SPCD SHALL FOLLOW THE FORMAT OF THE MOST CURRENT EDITION OF FAA AC 150/5370-2, SECTION 204(b) AND SHALL ADDRESS ITEMS (1)-(18) PER THE REQUIREMENTS OF THE AC.
- B. THE CONTRACTOR SHALL SUBMIT THE SPCD TO THE BUREAU OF AERONAUTICS FOR DELIVERY TO THE AIRPORT FOR REVIEW AND APPROVAL A MIN. OF FOURTEEN (14) DAYS PRIOR TO THE ANTICIPATED ISSUE OF THE NOTICE TO PROCEED. COPIES OF THE APPROVED CONSTRUCTION SAFETY PHASING PLAN AND SAFETY PLAN COMPLIANCE DOCUMENT SHALL BE MAINTAINED AT THE PROJECT SITE.

RESTRICTED AREAS / SAFETY AREAS

- A. CONSTRUCTION ACTIVITY ADJACENT TO ACTIVE RUNWAYS, TAXIWAYS, AND APRONS SHALL BE COORDINATED WITH THE AIRPORT AND MAY BE AUTHORIZED AFTER :
1. NOTICES TO AIRMEN (NOTAM'S) HAVE BEEN ISSUED BY THE AIRPORT.
 2. THE CONTRACTOR HAS ADEQUATE PROTECTION IN PLACE TO PROTECT FROM JET BLAST.
 3. BARRICADES AND LIGHTING PROVISIONS HAVE BEEN IMPLEMENTED BY THE CONTRACTOR, AND
 4. IT HAS BEEN DETERMINED THAT THE HEIGHT OF EQUIPMENT AND MATERIALS IS BEYOND THE REACH, OR SAFELY BELOW, AIRCRAFT USING ADJACENT OPERATIONAL AREAS. THE AIRPORT WILL SUPPLY INFORMATION FOR RUNWAY APPROACHES AND OTHER AREAS IF REQUIRED.
- B. NO CONSTRUCTION MAY OCCUR WITHIN AN EXISTING RUNWAY SAFETY AREA (WITHIN 250 FEET OF AN ACTIVE RUNWAY CENTERLINE AND 1,000 FEET BEYOND THE RUNWAY THRESHOLDS) OR TAXIWAY SAFETY AREA (WITHIN 85.5 FEET OF AN ACTIVE TAXIWAY CENTERLINE) WHILE THE RUNWAY/TAXIWAY IS OPEN TO AIRCRAFT OPERATIONS. OPEN TRENCHES OR EXCAVATIONS ARE NOT PERMITTED WITHIN THE SAFETY AREA OF AN OPEN RUNWAY OR TAXIWAY. IF THE RUNWAY/TAXIWAY MUST BE OPENED BEFORE EXCAVATIONS ARE BACKFILLED, THE EXCAVATIONS MUST BE COVERED IN SUCH A WAY AS TO ALLOW THE HEAVIEST AIRCRAFT OPERATING ON THE RUNWAY/TAXIWAY TO CROSS THE COVERING WITHOUT DAMAGE TO THE AIRCRAFT. THE SAFETY AREA MUST BE GRADED WITH NO POTENTIALLY HAZARDOUS RUTS, HUMPS, DEPRESSIONS, OR OTHER SURFACE VARIATIONS UPON OPENING. EXCAVATIONS WITHIN THE CONSTRUCTION AREA(S) MUST BE PROMINENTLY MARKED.
- C. CONSTRUCTION MAY BE PERMITTED IN THE RUNWAY OBJECT FREE AREA (ROFA) (WITHIN 400 FEET OF AN ACTIVE RUNWAY CENTERLINE AND 1,000 FEET BEYOND THE RUNWAY THRESHOLDS), BUT EQUIPMENT MUST BE REMOVED FROM THE ROFA WHEN NOT IN USE AND MATERIAL SHOULD NOT BE STOCKPILED WITHIN THE ROFA. UNLIKE THE RUNWAY, NO CONSTRUCTION MAY TAKE PLACE WITHIN THE OBJECT FREE AREA OF AN OPEN TAXIWAY (WITHIN 129.5 FEET OF AN ACTIVE TAXIWAY CENTERLINE OR 92 FEET FROM THE EDGE OF AN APRON), UNLESS
1. THE TOFA DIMENSION IS TEMPORARILY ADJUSTED FOR USE BY SMALLER AIRCRAFT ONLY;
 2. TEMPORARY OFFSET TAXIWAY MARKINGS ARE USED; OR
 3. CONSTRUCTION PROCEEDS WITH THE FOLLOWING RESTRICTIONS: APPROPRIATE NOTICES TO AIRMEN (NOTAM'S) HAVE BEEN ISSUED BY THE AIRPORT, BARRICADES AND LIGHTING PROVISIONS HAVE BEEN IMPLEMENTED BY THE CONTRACTOR, AND FLAGGERS AND WINGWALKERS ARE UTILIZED TO MAINTAIN A 5 FOOT SEPARATION BETWEEN AIRCRAFT AND ALL EQUIPMENT OR MATERIALS.
- D. STOCKPILED MATERIALS AND EQUIPMENT STORAGE IS NOT PERMITTED WITHIN THE SAFETY AREA OR OBJECT FREE AREA OF AN OPERATIONAL RUNWAY OR TAXIWAY. IF THE CONTRACTOR WISHES TO STOCKPILE MATERIALS OR EQUIPMENT ADJACENT TO A RUNWAY/TAXIWAY OBJECT FREE AREA, HE MUST FIRST COORDINATE WITH THE AIRPORT OPERATOR TO ENSURE THAT
1. APPROPRIATE LIGHTING AND BARRICADES ARE IN PLACE, AND
 2. THE STOCKPILED MATERIALS DO NOT CREATE A WILDLIFE ATTRACTANT OR FOREIGN OBJECT DEBRIS (FOD) HAZARD. EXCAVATION AND RESULTANT STOCKPILES ADJACENT TO OTHER PAVED SURFACES MUST BE APPROPRIATELY MARKED WITH BARRICADES, AS DIRECTED BY THE AIRPORT. DEBRIS SHALL NOT BE DEPOSITED ON ANY PORTION OF AN OPERATIONAL RUNWAY, TAXIWAY OR APRON. SHOULD ANY DEBRIS BE DEPOSITED ON ACTIVE OPERATIONAL AREAS, EITHER INTENTIONALLY OR ACCIDENTALLY, IT SHALL BE REMOVED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT.
- E. PERSONNEL, MATERIAL, AND/OR EQUIPMENT SHALL NOT PENETRATE THE RUNWAY OBSTACLE FREE ZONE (OFZ) OR THRESHOLD SIGHTING SURFACES WHILE THE RUNWAY IS OPEN. RUNWAY APPROACH/DEPARTURE AREAS AND CLEARWAYS SHALL BE PROTECTED.
- F. CLOSING OF RUNWAYS OR TAXIWAYS: WHEN IT BECOMES NECESSARY TO CLOSE OR CHANGE THE STANDARD OPERATIONS OF A RUNWAY OR TAXIWAY, THE CONTRACTOR SHALL, THROUGH THE ENGINEER, NOTIFY THE AIRPORT 72 BUSINESS HOURS IN ADVANCE OF THE PROPOSED CHANGE IN OPERATIONS. SHOULD A RUNWAY BE TEMPORARILY CLOSED, THE CONTRACTOR SHALL MARK THE AFFECTED RUNWAY WITH CLOSURE CROSSES IN ACCORDANCE WITH THE CLOSURE CROSS SPECIFICATIONS FOUND IN THE MOST CURRENT EDITION OF FAA AC 150/5345-55. CLOSURE CROSSES SHALL REMAIN IN PLACE UNTIL NORMAL RUNWAY OPERATIONS RESUME, AND BE REMOVED/REINSTALLED DAILY IF NECESSARY.
- G. OPEN-FLAME WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AS APPROVED BY THE AIRPORT. USE OF ELECTRICAL BLASTING CAPS IS PROHIBITED ON OR WITHIN 1,000 FEET OF THE AIRPORT PROPERTY. FLARE POTS ARE PROHIBITED WITHIN THE AIR OPERATIONS AREA (AOA).
- H. ALL VEHICLES ARE TO BE PARKED AND SERVICED IN THE CONTRACTOR STAGING/STORAGE AREA.
- I. THE CONTRACTORS' EQUIPMENT IS STRICTLY LIMITED TO THE CONSTRUCTION AREAS DURING CONSTRUCTION AND TO THE CONTRACTOR STAGING/STORAGE AREA DURING NON-CONSTRUCTION PERIODS, EXCEPT AS PROVIDED ON THE PLANS, IN THE CONTRACT SPECIAL PROVISIONS, OR AS MAY BE AUTHORIZED BY THE AIRPORT IN WRITING.
- J. DURING NON-WORKING HOURS BY THE CONTRACTOR, ALL WORK AREAS WITHIN THE SAFETY AREA OF ANY ACTIVE RUNWAY OR TAXIWAY, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING GRADES NO STEEPER THAN A 10:1 SLOPE. EVENLY GRADED TRANSITIONS OFF ALL EXISTING PAVEMENT EDGES, USING BASE COURSE MATERIAL AT SAME GRADE AS REMAINING PAVEMENT WILL BE REQUIRED. AT NO LOCATION WILL A GRADE CHANGE BE GREATER THAN 2 INCHES.

MARKING, LIGHTING, AND BARRICADES

- A. NO CONSTRUCTION SHALL BEGIN UNTIL ALL BARRICADES, CLOSURE CROSSES, AND SAFETY MEASURES HAVE BEEN PLACED AS SHOWN ON THE CONSTRUCTION OPERATIONS AND SAFETY PHASING PLAN SHEETS AND APPROVED BY THE AIRPORT OPERATIONS PERSONNEL.
- B. ANY CONSTRUCTION RELATED LIGHTING SHALL BE ADJUSTED OR SHIELDED TO PREVENT INTERFERENCE WITH AIRCRAFT OPERATIONS AND AIR TRAFFIC CONTROL.
- C. THE CONTRACTOR MUST ENSURE (WITH APPROVAL FROM AIRPORT MANAGEMENT) THAT ALL EQUIPMENT IS APPROPRIATELY MARKED AND LIGHTED AND LOWERED TO ITS MINIMUM HEIGHT WHEN NOT IN USE. ALL EQUIPMENT AND STORED MATERIAL MUST ALSO BE CLEAR OF ALL RUNWAY OBJECT FREE AREAS AND IF PRACTICABLE, STORED IN A STAGING AREA WHEN NOT IN USE.
- D. ALL CONSTRUCTION EQUIPMENT MUST BE MARKED WITH A 3 FEET BY 3 FEET ORANGE AND WHITE CHECKERED FLAG AND/OR AMBER BEACON. FOR NIGHT CONSTRUCTION, ALL EQUIPMENT MUST BE EQUIPPED WITH AN AMBER BEACON. ALL CONSTRUCTION VEHICLES MUST BE CLEARLY MARKED WITH THE COMPANY NAME/LOGO AT ALL TIMES IN ACCORDANCE WITH THE MOST CURRENT EDITION OF FAA AC 150/5210-5.
- E. STOCKPILED MATERIALS AND EQUIPMENT STORAGE IS NOT PERMITTED WITHIN THE SAFETY AREA, OBJECT FREE AREA, AND/OR OBSTACLE FREE ZONE OF AN OPERATIONAL RUNWAY. IF THE CONTRACTOR WISHES TO STOCKPILE MATERIALS OR EQUIPMENT ADJACENT TO RUNWAY SAFETY AREAS OR RUNWAY OBSTACLE FREE ZONES, HE/SHE MUST FIRST COORDINATE WITH THE AIRPORT OPERATOR TO ENSURE THAT APPROPRIATE LIGHTING AND BARRICADES ARE IN PLACE AND TO ENSURE THAT THE STOCKPILED MATERIALS DO NOT CREATE A WILDLIFE ATTRACTANT OR FOREIGN OBJECT DEBRIS (FOD) HAZARD.
- F. EXCAVATION AND RESULTANT STOCKPILES ADJACENT TO OTHER PAVED SURFACES MUST BE APPROPRIATELY MARKED WITH BARRICADES, AS DIRECTED BY THE ENGINEER.
- G. IF ANY AIRCRAFT MOVEMENT AREA MUST BE CLOSED, THE CONTRACTOR SHALL FURNISH AND PLACE PORTABLE BARRICADES ACROSS RUNWAYS, APRONS, OR TAXIWAYS TO KEEP VEHICLES FROM ENTERING ACTIVE OPERATION AREAS AND TO KEEP AIRCRAFT FROM TAXIING INTO CONSTRUCTION AREAS. SUPPLEMENT BARRICADES WITH SIGNS AS NECESSARY.
- H. ENSURE MARKINGS, SIGNS, AND LIGHTING ARE REMOVED OR COVERED TO PREVENT INADVERTENT ENTRY OF AIRCRAFT INTO CLOSED AREAS.
- I. BARRICADES SHALL BE MARKED WITH DIAGONAL, ALTERNATING ORANGE AND WHITE STRIPES AND SUPPLEMENTED WITH

EITHER FLASHING OR STEADY-BURNING LIGHTS DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS. LIGHTS SHALL BE THE BARRICADE TYPE TYPICAL FOR CONSTRUCTION ZONES, AND RED IN COLOR. ALL LIGHTS MUST BE CHECKED NIGHTLY TO ENSURE THAT THEY ARE OPERATING. ANY LIGHTS NOT FUNCTIONING SHALL BE REPLACED.

- J. THE INTENSITY OF THE LIGHTS AND BARRICADE LAYOUT MUST ADEQUATELY AND WITHOUT AMBIGUITY DELINEATE THE HAZARDOUS AREA. BARRICADES SHALL BE CAPABLE OF INTERLOCKING TO MAKE A PHYSICAL BORDER AROUND CONSTRUCTION SITE.
- K. BARRICADES SHALL BE LOW LEVEL AVIATION BARRICADES SPECIFICALLY MANUFACTURED AND DESIGNED FOR SUCH PURPOSE. THEY SHALL BE ALTERNATING ORANGE AND WHITE IN COLOR 10 INCHES HIGH AND 96 INCHES LONG, MADE OF UV-RESISTANT POLYETHYLENE AS MANUFACTURED BY MULTI-BARRIER (MODEL AR 10x96 HDPE) OR APPROVED EQUAL.
- L. ALL TRAFFIC CONTROL DEVICES SHALL MEET INDUSTRY AND WISCONSIN DOT STANDARD ACCESS ROUTES USED BY CONTRACTOR MUST BE CLEARLY MARKED TO PREVENT INADVERTENT ENTRY TO AREAS OPEN TO AIRPORT OPERATIONS.
- M. CONTRACTOR SHALL PROVIDE "25 MPH SPEED LIMIT" SIGNS AND "HAUL ROUTE" SIGNS WHEN HAULING ON THE AIRPORT ROADWAYS AND TAXIWAYS. OTHER SPEED LIMITS THAT MUST BE OBSERVED ARE, 10 MPH ON ANY AIRCRAFT APRON AND 5 MPH WITHIN 50 FEET OF ANY AIRCRAFT.
- N. CONTRACTOR MUST PROVIDE AN EMERGENCY CONTACT AVAILABLE 24 HOURS FOR MAINTENANCE OF CONSTRUCTION LIGHTING AND BARRICADING, OR ANY OTHER ISSUES THAT INTERFERE WITH THE OPERATIONS AT THE AIRPORT. CONTRACTOR SHALL, ON A DAILY BASIS, COORDINATE WITH THE AIRPORT MAINTENANCE SUPERINTENDENT TO ENSURE ALL REQUIRED AIRFIELD LIGHTING IS FUNCTIONAL, LIGHTED BARRICADES ARE OPERATIONAL, AND TO REVIEW NOTAM'S.
- O. PRIOR TO THE START OF CONSTRUCTION IN WORK AREA 2, THE CONTRACTOR SHALL MARK THE AFFECTED RUNWAY WITH CLOSURE CROSSES IN ACCORDANCE WITH THE CLOSURE CROSS SPECIFICATIONS AND DETAILS FOUND IN THE PLANS. CLOSURE CROSSES SHALL REMAIN IN PLACE UNTIL NORMAL RUNWAY OPERATIONS RESUME.

FUEL SUPPORT

ANY TYPE OF FUELING SUPPORT FACILITY OR DEVICE USED TO REFUEL CONSTRUCTION EQUIPMENT IS SUBJECT TO LOCAL FIRE INSPECTION. LOCAL FIRE CODES AND SAFETY STANDARDS SHALL BE MET PRIOR TO COMMENCEMENT OF WORK.

SWEEPING / CLEAN-UP

- A. THE CONTRACTOR SHALL HAVE SWEEPING OR VACUUMING CAPABILITIES ON-SITE AT ALL TIMES IN ORDER TO REMOVE DEBRIS FROM ACTIVE OPERATIONAL AREAS (RUNWAYS, TAXIWAYS, APRONS, ENTRANCE ROADS, PERIMETER ROADS, ETC), MATERIAL TRACKED OUT TO THESE AREAS MUST BE CONTINUOUSLY REMOVED DURING THE CONSTRUCTION PROJECT.
- B. PRIOR TO OPENING AIRCRAFT MOVEMENT AREAS CLOSED FOR THIS PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE, INCLUDING ADJACENT PAVEMENTS AND HAUL ROUTES, IS CLEAR OF ANY FOREIGN OBJECT DEBRIS (FOD) TO THE SATISFACTION OF AIRFIELD MANAGEMENT, IN ACCORDANCE WITH 14 CFR Part 139. THE AIRPORT OPERATOR SHALL CONDUCT ADDITIONAL SELF-INSPECTIONS IN THE VICINITY OF THE PROJECT WITH SPECIAL EMPHASIS ON THE PRESENCE OF FOD THAT COULD DAMAGE AIRCRAFT.
- C. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THE SITE, INCLUDING ADJACENT PAVEMENTS AND HAUL ROUTES, IS RETURNED TO ORIGINAL CONDITION TO THE SATISFACTION OF THE AIRPORT. CONTRACTOR MAY CHOOSE TO USE TRACKOUT CONTROL DEVICES ALONG WITH SWEEPING AND VACUUMING EFFORTS TO DEAL WITH POTENTIAL FOD ISSUES. SUCH TRACKOUT DEVICES CAN BE FOUND AT WWW.TRACKOUTCONTROL.COM OR BY SIMILAR SUPPLIERS.
- D. HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT. CONTRACTOR MUST CONTAIN AND CLEAN-UP SPILLS RESULTING FROM FUEL OR HYDRAULIC FLUID LEAKS. ANY SPILLS OF HAZARDOUS MATERIAL MUST BE CLEANED UP IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- E. CONTRACTOR SHALL USE ALL MEANS NECESSARY TO MINIMIZE DUST DURING CONSTRUCTION OPERATIONS. IF THE AIRPORT REQUESTS DUST CONTROL, IT SHALL BE APPLIED IMMEDIATELY.

HAUL ROUTES, PLANT SITES AND STAGING AREAS

- A. HAUL ROUTES AND ACCESS TO THE CONSTRUCTION SITE(S) WILL BE AS SHOWN ON THE CONSTRUCTION SAFETY AND PHASING PLAN AND AS DISCUSSED AT THE PRE-BID CONFERENCE.
- B. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL HAUL ROADS, PLANT SITES AND STAGING AREAS TO ORIGINAL CONDITION. THIS WILL INCLUDE BUT NOT BE LIMITED TO GRADING (FILLING IF NECESSARY) AND SEEDING ALL TURF AREAS. ANY PAVEMENT AREAS USED BY THE CONTRACTOR AS A HAUL ROUTE WHICH ARE DAMAGED WILL BE REPAVED AND/OR REMARKED AS APPROVED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- C. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING ALL HAUL ROUTES PRIOR TO THE START OF CONSTRUCTION. THE CONDITION OF EXISTING HAUL ROUTES SHALL BE DOCUMENTED EITHER WITH PICTURES OR VIDEO AND PROVIDED TO THE ENGINEER PRIOR TO ANY HAULING ACTIVITIES. ANTICIPATED COSTS ASSOCIATED WITH DOCUMENTING EXISTING HAUL ROUTE CONDITION, OR RECONSTRUCTING OR RESTORING HAUL ROUTES AND STAGING AREAS SHALL BE INCIDENTAL TO THE PROJECT.
- UNDERGROUND ELECTRICAL CIRCUITS**
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING AIRFIELD UTILITIES, AND ELECTRICAL CIRCUITS, WHETHER OWNED BY THE AIRPORT OR OTHER AGENCIES OPERATING AT THE AIRPORT. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE BASED ON AVAILABLE AS-BUILT DATA AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ANY CROSSING OF UNDERGROUND ELECTRICAL CIRCUITS AND UTILITIES WITH THE AIRPORT, AND FAA FACILITIES PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE TONING EQUIPMENT CAPABLE OF DETECTING A 60 HZ SIGNAL FOR LOCATING CABLES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. COST OF LOCATING THE UTILITIES AND PROVIDING THE TONING EQUIPMENT SHALL BE INCIDENTAL TO THE PROJECT.
- B. ANY ELECTRICAL CIRCUITS TO BE CROSSED SHALL THEN BE TESTED FOR RESISTANCE TO GROUND BY THE CONTRACTOR UNDER SUPERVISION OF THE ENGINEER AND THE READINGS RECORDED. FOLLOWING CONSTRUCTION, THE CONTRACTOR, UNDER THE SUPERVISION OF THE ENGINEER, SHALL CHECK ALL CIRCUITS CROSSED DURING THE PROJECT. ANY CIRCUITS SHOWING A DECREASE IN RESISTANCE TO GROUND SHALL BE CORRECTED BY THE CONTRACTOR TO ORIGINAL CONDITION OR AT LEAST 50 MEGOHM'S RESISTANCE IN THAT CIRCUIT. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY CORRECTIVE ELECTRICAL WORK DUE TO CONTRACTOR'S OPERATIONS. SEE SPECIFICATIONS FOR REPAIR AND SPLICING REQUIREMENTS.

AIRPORT SECURITY

- A. IT IS REQUIRED THAT CONTRACTORS WILL ACCESS THE CLOSED AIRFIELD SURFACES. WORK WITHIN THE PROJECT LIMITS WILL NOT REQUIRE COMMUNICATION WITH THE CONTROL TOWER.
- B. ALL CONTRACTOR EMPLOYEES MUST SUBMIT TO A CRIMINAL HISTORY RECORDS CHECK (CHRC), IN ACCORDANCE WITH THE AIRPORT SECURITY PROGRAM. SUCCESSFUL COMPLETION OF THE CHRC WILL RESULT IN AN APPROVED AIRPORT ID BADGE THAT WOULD ALLOW ACCESS TO THE PROJECT SITE.
- C. THE CONTRACTOR WILL PROVIDE A GATE GUARD AT ALL POINTS OF ENTRY USED BY THE CONTRACTOR. COST OF GUARD TO BE PAID BY THE CONTRACTOR. GATES MUST BE LOCKED AT ALL TIMES WHEN NOT USED OR NOT GUARDED BY THE GATE GUARD. IF ANY CONSTRUCTION GATES ARE FOUND BY AIRFIELD STAFF TO BE OPEN AND UNATTENDED, ALLOWING UNINHIBITED ACCESS TO ANY SECURE AND/OR AIRCRAFT MOVEMENT AREAS ON THE AIRFIELD, THE CONTRACTOR MAY INCUR A FINE.
- D. WHEN APPLICABLE, THE AIRPORT OPERATOR MUST SUBMIT A CHANGED CONDITION AFFECTING SECURITY IN ACCORDANCE WITH 49 CFR PART 1542.107.
- E. ALL COSTS INCURRED IN MEETING THE AIRFIELD SECURITY REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

WILDLIFE MANAGEMENT

CONTRACTOR MUST AVOID CREATING WILDLIFE HAZARDS ON THE AIRPORT SUCH AS TRASH, STANDING WATER, TALL GRASS AND SEEDS. SEEDING SHOULD COMPLY WITH SPECIFICATION 32 92 19.

MEETINGS AND CORRESPONDENCE

- A. THE AIRPORT OPERATOR SHALL ISSUE AND MAINTAIN APPROPRIATE NOTAM'S REGARDING THE PRESENCE OF PERSONNEL AND EQUIPMENT. EACH RUNWAY OR TAXIWAY THAT DOES NOT MEET THE REQUIREMENTS OF 14 CFR PART 139.309, SHALL HAVE A NOTAM CLOSING THE RUNWAY/TAXIWAY.
- B. CONTRACTOR IS REQUIRED TO ATTEND WEEKLY COORDINATION MEETINGS AT WHICH SAFETY ISSUES WILL BE DISCUSSED.

C. ALL CONTRACTOR PERSONNEL SHALL COMPLETE THE AIRPORT'S BADGING REQUIREMENTS AND APPLICABLE SIDA/AOA/DRIVERS TRAINING COURSE. INFORMATION WILL BE SUPPLIED AT THE PRE-CONSTRUCTION MEETING.

AIRPORT OPERATIONS

- A. IF APPLICABLE TO THE PROJECT, THE FOLLOWING WILL BE SUBMITTED BY THE AIRPORT OPERATOR TO THE ASSIGNED AIRPORT CERTIFICATION SAFETY INSPECTOR (ACSI):
1. ANY REVISIONS TO THE AIRPORT CERTIFICATION MANUAL (INCLUDING CHANGES TO THE SIGN AND MARKING PLAN)
 2. 5010 AIRPORT MASTER RECORD UPDATES.
 3. NEW OBSTRUCTION SURVEY INFORMATION.
 4. AIRPORT DIAGRAM UPDATES AND CHANGES
- B. THE AIRPORT OPERATOR SHALL REVIEW THE AIRPORT'S EMERGENCY PLAN AND MAKE NECESSARY MODIFICATIONS OR ADJUSTMENTS TO ENSURE ARFF REQUIREMENTS SUCH AS RESPONSE TIMES ARE MAINTAINED.
- C. AIRPORT MANAGEMENT SHALL TAKE ACTION TO ENSURE ALL VEHICLE/EQUIPMENT OPERATORS WHO WILL HAVE MOVEMENT/NON-MOVEMENT AREA ACCESS ARE PROPERLY TRAINED BY AIRPORT PERSONNEL RELATIVE TO 14 CFR PART 139 COMPLIANCE. AIRPORT MANAGEMENT SHALL ENSURE THAT THESE VEHICLE OPERATORS HAVE BEEN TRAINED /BRIEFED ON GROUND VEHICLE/EQUIPMENT OPERATIONS AND AIRPORT FAMILIARIZATION, WITH PARTICULAR EMPHASIS ON RUNWAY INCURSION PREVENTION. PENALTIES SHALL BE OUTLINED FOR ANYONE INVOLVED IN A VEHICLE DEVIATION/RUNWAY INCURSION.
- D. THE AIRPORT OPERATOR SHALL ENSURE THAT TENANT AND CONSTRUCTION CONTRACTOR PERSONNEL ENGAGED IN ACTIVITIES INVOLVING UNESCORTED OPERATION ON AIRCRAFT MOVEMENT AREAS OBSERVE THE PROPER PROCEDURES FOR COMMUNICATIONS, INCLUDING USING APPROPRIATE RADIO FREQUENCIES AT AIRPORTS WITH AND WITHOUT ATCTS.
- E. COORDINATE EARLY WITH THE ASSIGNED ACSI TO SCHEDULE RE-INSPECTION PRIOR TO OPENING SURFACES TO AIR CARRIER OPERATIONS.

ENFORCEMENT

- A. VIOLATIONS TO THE AIRPORT OPERATIONS OR THESE RULES AND REGULATIONS, DEPENDING UPON THE SEVERITY OF THE VIOLATION, MAY RESULT IN ONE OR MORE OF THE FOLLOWING:
1. FINES
 2. A VERBAL AND/OR WRITTEN WARNING
 3. REVOCATION OF AOA BADGE AND/OR VEHICLE ACCESS PERMIT
 4. THE CONTRACT WORK BEING STOPPED UNTIL CORRECTIVE MEASURES ARE TAKEN TO PRECLUDE A RECURRENCE OF THE VIOLATIONS. NO TIME EXTENSION WILL BE ISSUED DUE TO A VIOLATION.
 5. REMOVAL FROM THE PROJECT
- B. THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES LEVIED BY THE AIRPORT, AND/OR TSA FOR VIOLATIONS OF AIRFIELD AND SECURITY REGULATIONS.

PERMITS AND LOCAL INSPECTION FEES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS REQUIRED FOR THIS PROJECT. ALL COSTS ASSOCIATED WITH PERMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

OPERATIONS/PHASING/TRAFFIC CONTROL PROJECT NOTES:

1. SEE SHEET G-081 FOR ADDITIONAL PHASING / TRAFFIC CONTROL NOTES.
2. CRITICAL AIRCRAFT DURING CONSTRUCTION OPERATIONS CONSIST OF DESIGN GROUP IV AIRCRAFT.
3. UNLESS OTHERWISE SHOWN, ALL CONSTRUCTION OPERATIONS SHALL BE MAINTAINED BELOW 25 FT IN HEIGHT.
4. **24 HR CONTACTS**

MSN OPERATIONS	(608) 235-1001 (CELL), (608) 246-3397 (OFFICE)
SHERIFF	911, (608) 246-3386 (OFFICE)
AIRPORT FIRE	911, (608) 241-4755 (OFFICE)
MEAD & HUNT, INC.	(608) 220-8310 (CELL)
5. **EMERGENCY NOTIFICATION PROCEDURE**
 - 1) CALL 911
 - 2) CALL MSN OPERATIONS
6. THE AIRPORT OPERATOR SHALL REVIEW THE CONTRACTOR'S EMERGENCY PLAN AND MAKE NECESSARY MODIFICATIONS OR ADJUSTMENTS TO CONSTRUCTION OPERATIONS TO ENSURE ARFF REQUIREMENTS SUCH AS RESPONSE TIMES ARE MAINTAINED.
7. AIRPORT MANAGEMENT SHALL TAKE ACTION TO ENSURE ALL VEHICLE/ EQUIPMENT OPERATORS WHO WILL HAVE MOVEMENT OR NON-MOVEMENT AREA ACCESS ARE PROPERLY TRAINED BY AIRPORT PERSONNEL RELATIVE TO 14 CFR PART 139 COMPLIANCE. AIRPORT MANAGEMENT SHALL ENSURE THAT THESE VEHICLE OPERATORS HAVE BEEN TRAINED/ BRIEFED ON GROUND VEHICLE/ EQUIPMENT OPERATIONS AND AIRPORT FAMILIARIZATION, WITH PARTICULAR EMPHASIS ON RUNWAY INCURSION PREVENTION. PENALTIES SHALL BE OUTLINED FOR ANYONE INVOLVED IN A VEHICLE DEVIATION/ RUNWAY INCURSION.
8. THE AIRPORT OPERATOR WILL ENSURE THAT A CHANGED CONDITION TO SECTION 4 OF THE AIRPORT SECURITY PROGRAM IS SUBMITTED TO THE TSA.
9. AIRPORT MANAGEMENT WILL MONITOR CONSTRUCTION AND AIRCRAFT ACTIVITY THROUGHOUT PROJECT. IF IT IS DETERMINED THAT TRAFFIC CONTROL IS NOT BEING FOLLOWED, THE CONTRACTOR WILL MAKE ANY CHANGES TO TRAFFIC CONTROL (ADDITIONAL SIGNS, FLAGGERS, ETC.) THE AIRPORT IS REQUIRED TO ENSURE THE SAFETY OF AIRCRAFT AND VEHICLE MOVEMENTS IN CONSTRUCTION AREAS.
10. SEE SPECIAL PROVISIONS FOR ADDITIONAL WORK RESTRICTIONS.
11. ANY REVISIONS TO THE CSPP WILL BE COORDINATED THROUGH AND WITH THE AIRPORT OPERATOR AND THE FAA.
12. THE AIRPORT OPERATOR WILL ENSURE THAT COORDINATION WITH FAA ATO IS MAINTAINED WHEN AND IF, ANY NAVAIDS OR FACILITY SHUTDOWNS OR RESTARTS ARE IMPACTED.
13. ANY EQUIPMENT HEIGHT THAT WILL PENETRATE AN APPROACH/DEPARTURE SURFACE WILL BE FILED WITH THE FAA AND THE AIRPORT WILL ISSUE THE APPROPRIATE FDC NOTAM.
14. AT NO TIME SHALL MATERIALS BE STAGED OR EQUIPMENT BE PARKED WITHIN THE APPROACH/DEPARTURE SURFACE OR TAXIWAY SAFETY AREA WHILE NOT IN USE.

Mead & Hunt

Mead and Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses, and expenses, including attorney's fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

DANE COUNTY REGIONAL AIRPORT
STORM SEWER REHABILITATION
4000 INTERNATIONAL LANE
MADISON WISCONSIN 53704

ISSUED
06/10/22 BID SET

RECORD DRAWING

12-20-2023

THIS IS A CONSTRUCTION RECORD DRAWING BASED ON INFORMATION SUPPLIED BY THE CONTRACTOR TO MEAD & HUNT. MEAD & HUNT, INC. ASSUMES NO LIABILITY FOR ACCURACY OF THE INFORMATION SUPPLIED.

PROJECT NO.: MSN1015/SOP-103
MMH NO.: 2309936-200091.01
DATE: JUNE 10, 2022
DESIGNED BY: TJA
DRAWN BY: TJR
CHECKED BY: TPD
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CONSTRUCTION OPERATIONS GENERAL NOTES

SHEET NO. 4 of 9

G-091

These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses, and expenses, including attorney's fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

**DANE COUNTY REGIONAL AIRPORT
STORM SEWER REHABILITATION**
4000 INTERNATIONAL LANE
MADISON WISCONSIN 53704

ISSUED
06/10/22 BID SET

**RECORD
DRAWING**
12-20-2023
THIS IS A CONSTRUCTION RECORD DRAWING BASED ON INFORMATION SUPPLIED BY THE CONTRACTOR TO MEAD & HUNT, INC. MEAD & HUNT, INC. ASSUMES NO LIABILITY FOR ACCURACY OF THE INFORMATION SUPPLIED.

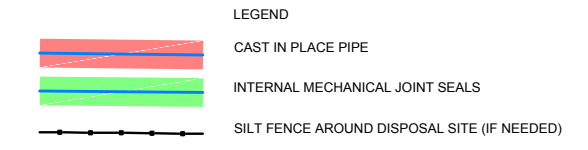
PROJECT NO.: MSN1015/SOP-103
MSH NO.: 2309936-200091.01
DATE: JUNE 10, 2022
DESIGNED BY: TJA
DRAWN BY: TJR
CHECKED BY: TPD
DO NOT SCALE DRAWINGS

SHEET CONTENTS
STORM SEWER REHABILITATION - WORK AREA 1

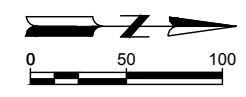
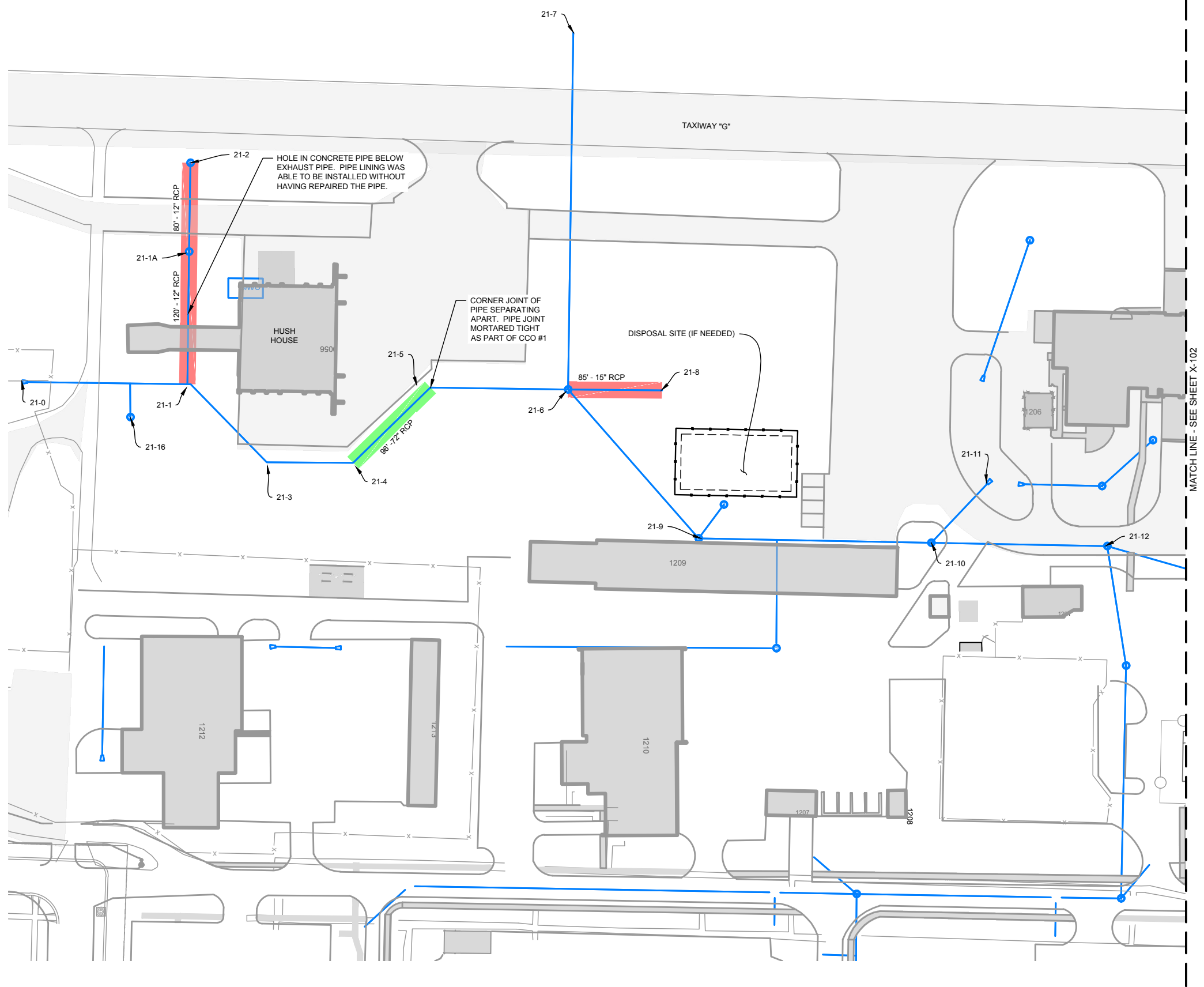
SHEET NO. 5 of 9

X-101

- GENERAL NOTES:
1. CONTRACTOR SHALL COORDINATE WITH AIR NATIONAL GUARD AND THE AIRPORT.
 2. CONTRACTOR WILL ENTER WORK THROUGH THE TRUAX MAIN GATE. AN ENTRY AUTHORITY LIST (EAL) WILL NEED TO BE COMPLETED FOR EMPLOYEES ENTERING BASE/AIRPORT PROPERTY.
 3. CONTRACTOR WILL NEED TO MEET DANE COUNTY REGIONAL AIRPORT BADGING REQUIREMENTS. SEE SHEETS G-081 AND G-091 FOR MORE INFORMATION.
 4. CONTRACTOR SHALL DISPOSE OF WATER AND DEPOSITS FROM CLEANING ACTIVITIES ON SITE AS SHOWN ON THE PLANS OR WHERE DESIGNATED BY THE ENGINEER.
 5. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE FOR ANY SEDIMENT DEPOSITED WITHIN THE DISPOSAL SITE OR ANYWHERE ELSE AS COORDINATED WITH THE ENGINEER.
 6. THE AIRPORT SHALL PROVIDE ALL TOPSOIL AND LANDSCAPING MATERIALS, AND COMPLETE ANY LANDSCAPING IF NEEDED.
 7. CONTRACTOR SHALL FIELD VERIFY ALL PIPE SIZES PRIOR TO ORDERING MATERIALS.
 8. CONTRACTOR SHALL INSTALL SILT FENCE AT DISPOSAL SITES AS SHOWN ON PLANS. CONTRACTOR SHALL REMOVE AND DISPOSE OF SITE FENCE AFTER SITES ARE STABILIZED.



AIRPORT ID BADGE AND NATIONAL GUARD ESCORT REQUIRED FOR ALL WORK ON THIS SHEET.



12/19/2023 12:23:36 PM
C:\WORKSPACE\2023\12\19\2023\12\19\101_PIPE_REPAIR.DWG

These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses, and expenses, including attorney's fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

**DANE COUNTY REGIONAL AIRPORT
STORM SEWER REHABILITATION**

4000 INTERNATIONAL LANE
MADISON WISCONSIN 53704

ISSUED
06/10/22 BID SET

**RECORD
DRAWING**

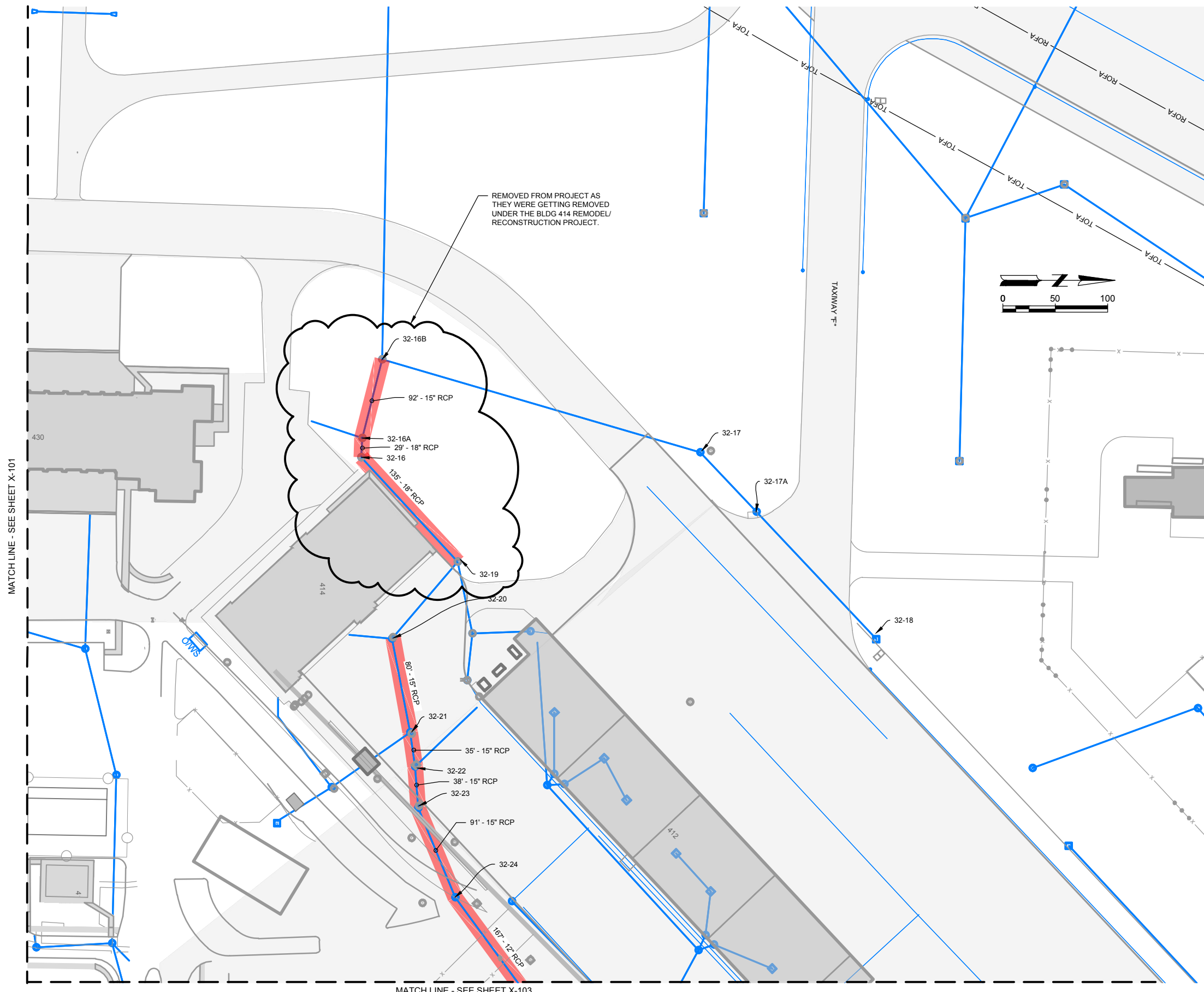
12-20-2023
THIS IS A CONSTRUCTION RECORD DRAWING BASED ON INFORMATION SUPPLIED BY THE CONTRACTOR TO MEAD & HUNT. MEAD & HUNT, INC. ASSUMES NO LIABILITY FOR ACCURACY OF THE INFORMATION SUPPLIED.

PROJECT NO.: MSN1015/SOP-103
MSH NO.: 2309936-200091.01
DATE: JUNE 10, 2022
DESIGNED BY: TJA
DRAWN BY: TJR
CHECKED BY: TPD
DO NOT SCALE DRAWINGS

SHEET CONTENTS
STORM SEWER REHABILITATION - WORK AREA 2

SHEET NO. 6 of 9

X-102



MATCH LINE - SEE SHEET X-101

MATCH LINE - SEE SHEET X-103

NOTES:
1. SEE NOTES AND LEGEND ON SHEET X-101.

AIRPORT ID BADGE AND NATIONAL GUARD ESCORT
REQUIRED FOR ALL WORK ON THIS SHEET.

1/20/2024 8:33:21 AM
C:\Users\jordan\OneDrive\Documents\MEAD\HUNT\BID SET\DWG\REHAB\DWG

These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses, and expenses, including attorney's fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

**DANE COUNTY REGIONAL AIRPORT
STORM SEWER REHABILITATION**
4000 INTERNATIONAL LANE
MADISON WISCONSIN 53704

ISSUED
06/10/22 BID SET

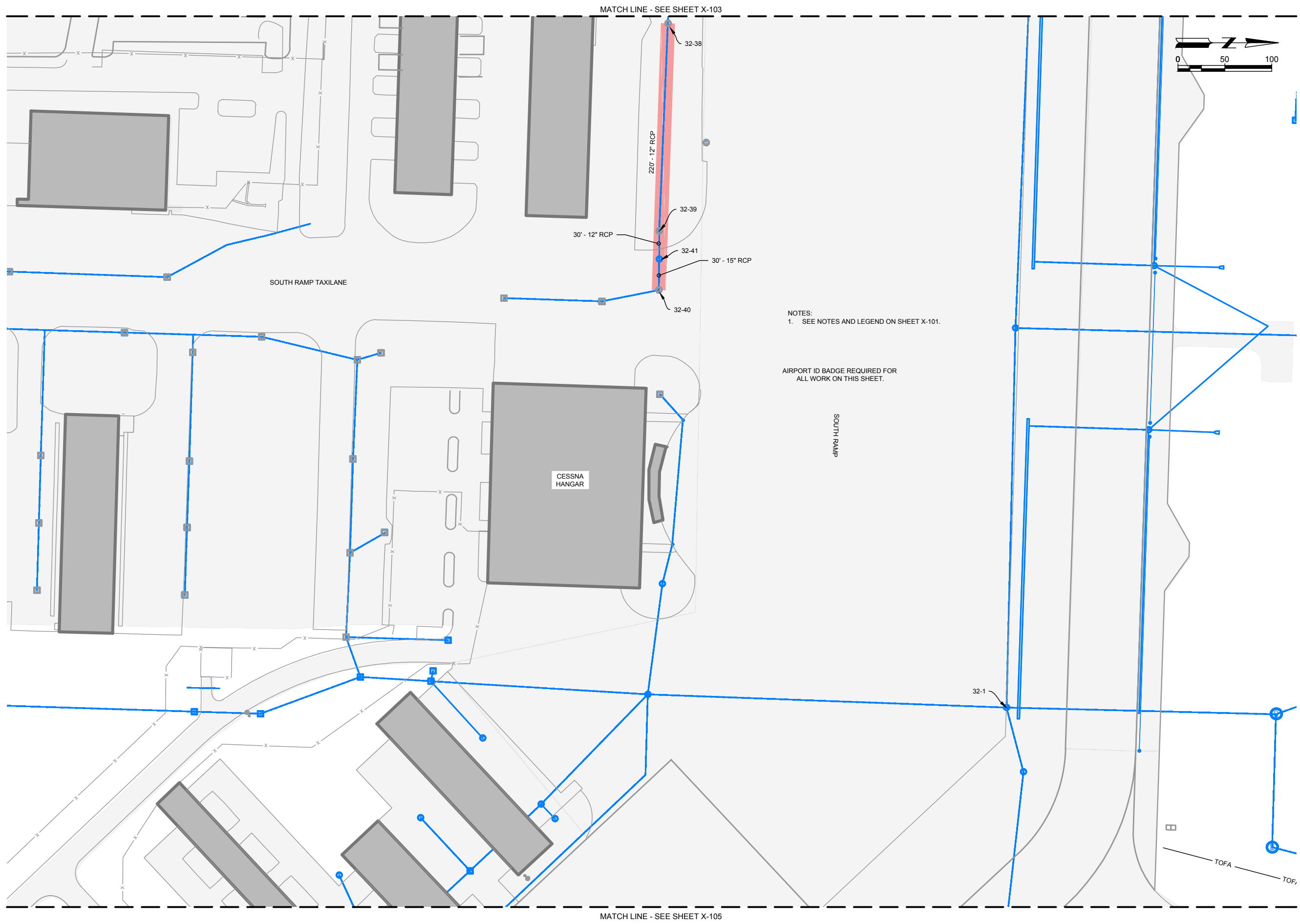
**RECORD
DRAWING**
12-20-2023
THIS IS A CONSTRUCTION
RECORD DRAWING BASED ON
INFORMATION SUPPLIED BY THE
CONTRACTOR TO MEAD & HUNT,
MEAD & HUNT, INC. ASSUMES NO
LIABILITY FOR ACCURACY OF
THE INFORMATION SUPPLIED.

PROJECT NO.: MSN1015/SOP-103
MSH NO.: 2309936-200091.01
DATE: JUNE 10, 2022
DESIGNED BY: TJA
DRAWN BY: TJR
CHECKED BY: TPD
DO NOT SCALE DRAWINGS

SHEET CONTENTS
STORM SEWER
REHABILITATION -
WORK AREA 3

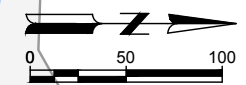
SHEET NO. 8 of 9

X-104



MATCH LINE - SEE SHEET X-103

MATCH LINE - SEE SHEET X-105



NOTES:
1. SEE NOTES AND LEGEND ON SHEET X-101.

AIRPORT ID BADGE REQUIRED FOR
ALL WORK ON THIS SHEET.

12/19/2023 12:28:36 PM
C:\WORKSPACE\2023\1015\SOP\103\DWG\X-104_SHEW_REHAB.DWG

Attachment 2
Flow Monitoring Memo

STARKWEATHER CREEK DISCHARGE MONITORING

Date	08/24/2023 (revised 12/4/23)
To / Contact info	Tim Astfalk (Mead & Hunt), Eric Oelkers (SCS Engineers)
Cc / Contact info	Ryan Matzuk (SCS Engineers)
From / Contact info	Nick Hayden, Steve Gaffield (EOR)
Regarding	Summary of Discharge Measurements, 2021 and 2023

Background

Emmons and Olivier Resources, Inc. (EOR) collected discharge measurements to support the PFAs sampling and assessment conducted by SCS Engineers and Mead & Hunt. Discharge measurements were taken along the main channel of the West Branch of Starkweather Creek (“West Branch”) and its tributaries. Four locations were within Dane County Regional Airport property, and two were downstream. Three rounds of measurements were taken in Summer 2021, prior to storm sewer improvements at the airport, and three more rounds were taken in Summer 2023 after the improvements. One additional round was taken in November 2023. This memorandum presents the discharge results for the entire study and provides commentary on discharge patterns across the sites.

Methods

Monitoring Locations

The general monitoring locations were selected by others, but EOR provided input on specific cross-section locations. **Table 1** lists the locations and the discharge measurement method used (described in later sections). SCS staff collected water quality measurements and samples at these same sites prior to EOR staff entering the waterways.

Table 1. Monitoring Locations.

Site	Description	Method
Outfall 32	Storm sewer outfall to West Branch, west of airport runways	Orifice equation
Outfall 21	Storm sewer outfall to West Branch tributary, adjacent to National Guard facilities	Current meter
11	West Branch near southern airport boundary, upstream of tributary	Current meter
10	Tributary to West Branch near southern airport boundary	Current meter
4a	West Branch, ~700' downstream of Anderson St.	Current meter
7	West Branch, ~50' upstream of Commercial Avenue	Current meter

Event Timing

The monitoring activities and timing were coordinated with Mead & Hunt and SCS Engineers, who worked with the Wisconsin Department of Natural Resources (WDNR) to ensure the PFAs sampling would meet the WDNR's requirements. The WDNR required there not be 0.1" or greater rainfall on the day of sampling or greater than 1.0" of rain in the preceding 24 hours, and a minimum discharge of 2 cubic feet per second (cfs) along the main West Branch.

Discharge Measurements

Current Meter Sites

EOR used a SonTek FlowTracker 2 device to calculate discharge at five sites following United States Geological Survey (USGS) standards described in *Discharge Measurements at Gaging Stations*¹, particularly the "Current-Meter Measurements by Wading" section. The Flow Tracker 2 default measurement settings follow the USGS recommendations, including the following guidance:

- Whenever possible, cross-sections should be at channel sections with clearly defined banks, flow parallel to the banks, and without nearby upstream and downstream obstructions. For this study, aquatic vegetation presented the biggest impediment to evenly distributed velocity and discharge patterns.
- The number of stations across a cross-section should be sufficient to account for changes in depth and velocity patterns across the channel. For this study, sites generally had 20 or more stations.
- No single station should account for greater than 10% of the total discharge measurement. For this study, if the initial transect spacing resulted in stations that did not meet this requirement at one or more locations, additional adjacent stations were added until this threshold was met.
- A single velocity measurement (0.6 depth) is taken at stations where water depth is less than 1.6 feet. For this study, this condition was almost always met at the tributary sites and often met along the main West Branch during drier conditions.
- Two velocity measurements (0.2 & 0.8 depths) are taken at stations where water depth is 1.6 feet or greater. For this study, the West Branch locations 11 and 4a often required two measurements per station except during the driest sampling events.

¹ Turnipseed, D.P., and Sauer, V.B., 2010, Discharge measurements at gaging stations: U.S. Geological Survey Techniques and Methods book 3, chap. A8, 87 p. (Also available at <https://pubs.usgs.gov/tm/tm3-a8/>.)

The dense vegetation present at the current meter sites presented challenges for taking accurate measurements. During the initial event of each season, a section of up to ten feet upstream and downstream of the cross-section was cleared of aquatic vegetation with rakes and hand-pulling and was re-cleared during each subsequent event. Prior to clearing, flow patterns across the channels alternated between slack water downstream of thick vegetation to sections of higher velocities in small openings between the vegetation mats. After clearing, the flow was more evenly distributed across the channel and water column, which decreased the potential for discharge measurement error.

The loose muck substrate at these sites was another challenge. Personnel typically sank one to two feet into the muck during measurements, presenting challenges for moving between stations and for temporarily disturbing the water column while extracting wader boots from the muck. In some cases, the operator needed to wait for sediment to clear and for flow patterns to return to normal after this movement before starting the next measurement. The muck also tended to sink the base of the wading rod a foot or more, which required checking and adjusting the height of the sensor to maintain the targeted sensor depths.

Total discharge results from the current meter sites were automatically calculated by the FlowTracker 2 software at time of measurement, and the measurement files were downloaded and further post-processed in the office using FlowTracker2 software.

Orifice Equation Site

Discharge at Outfall 32 was calculated differently than the other sites, as the distance from the outfall to the West Branch is short (approximately 20 feet) and there is a concrete weir with an orifice that further subdivides this section. As a result, velocity vectors are not parallel or distributed horizontally or vertically as they would be in a typical open channel section and are also impacted by the West Branch tailwater. The discharge was instead calculated by measuring the head differential between the upstream and downstream sides of the weir and using the standard orifice equation (below). Water levels were below the weir during all site visits.

$$\text{Orifice Equation: } Q = Cd * A * \sqrt{2gH}$$

where Q = discharge (cfs), Cd = 0.6, A = orifice area (sf), g = 32.2 ft/s, and H = head differential (ft).

Results and Discussion

Event Conditions

Streamflow can be impacted by seasonal patterns and both short- and long-term precipitation. To help put each event's results in context, EOR tabulated precipitation received in the 48 hours and 2 weeks leading up to each event, as well as the total precipitation received to calendar date of that year and how

it compared to a “normal” year (1991-2020). Data were taken from the National Weather Service station at the airport (NOAA site USW00014837) and are shown in **Table 2**.

Table 2. Antecedent Rainfall.

Event Date	48-Hour Precip. (in.)	Two-Week Precip. (in.)	Year-to-Date Total Precip. (in.)	NORMAL (1991-2020) YTD Total (in.)
6/30/2021	0.46	4.50	11.8	18.4
7/13/2021	0.01	0.26	12.0	20.4
8/3/2021	0	0.54	13.4	23.3
6/6/2023	0.07	0.72	12.4	14.2
7/18/2023	0	3.15	16.3	21.2
8/2/2023	0	2.74	19.0	23.2
11/29/2023	0	0.61	28.1	35.4

Both 2021 and 2023 had below-normal annual precipitation totals at the time of measurement. During 2021, the calendar year precipitation deficit started at 6.6 inches at the first event and was 10.0 inches by the last event. During 2023, the calendar year precipitation deficit started at 1.8 inches at the first event and was 7.3 inches by the final event. The 6/30/21 event had the highest two-week antecedent precipitation (4.50 inches), while the 7/18/23 and 8/2/23 events had approximately 3 inches in the two weeks prior. The other four events had less than an inch of rain in the previous two weeks.

Discharge Measurements

Discharge measurements at all sites for all events are shown in **Table 3** and in **Figure 1**. Despite drought conditions in 2021, discharges along the West Branch on 6/30/21 ranged from approximately seven to nine cfs and were higher than any other event, likely because of the 4.5 inches of rainfall during the previous two weeks including nearly 0.5 inches the day before. The following two events in 2021 had much lower discharges than that first event, with discharges along the West Branch dropping to nearly two cfs by 8/3/21.

2023 had more consistent discharges between events. Despite a very dry May, which only had 0.76 inches compared to the normal May precipitation of 4 inches, the calendar year deficit was less than 2 inches at that point, and discharges along the West Branch were higher than they were at the end of the previous summer. The second and third 2023 events typically had higher discharges than the first event of that year, despite the ongoing drought conditions, likely because of precipitation (~3 inches) in each of the two weeks leading up to those events. Discharges on the final 2023 event were like the third event, although two sites (10 and 7) could not be measured due to ice coverage that spanned nearly the entire

channel at the measurement sites, including upstream and downstream of the cross-section. This ice coverage prevented accurate or safe measurements.

Table 3. Discharge Results.

Site	Discharge (cfs)						
	6/30/21	7/13/21	8/3/21	6/6/23	7/18/23	8/2/23	11/29/23
Outfall 32	0.84	0.46	0.43	0.72	0.82	0.75	0.75
Outfall 21	0.14	0.03	0.03	0.04	0.06	0.04	0.03
10	0.17	0.25	0.21	0.36	0.50	0.24	ICE
11	6.89	4.10	2.15	3.57	4.12	4.46	5.29
4a	8.37	3.77	2.10	4.31	4.66	5.13	5.21
7	8.70	3.53	2.23	3.69	6.71	6.01	ICE

EOR and project partners noted some interesting patterns in the data. First, the total discharge at site 4a, which is only ~700 feet downstream of the confluence of sites 10 and 11, was not always equivalent to adding those two sites' discharges together. On 6/30/21, discharge at 4a was over one cfs higher than the simple additive total. This suggests that groundwater discharge and/or the return of hyporheic flows from recent rains can raise the discharge along a relatively short section of the West Branch under certain conditions. Second, there were events in 2021 where discharge along the West Branch decreased or held steady from upstream to downstream, while the opposite was typically true in 2023. This indicates that Starkweather Creek can alternate from gaining to losing streamflow, depending on groundwater conditions. This is consistent with EOR's experience using the Dane County Regional Groundwater Model, where the downstream sections of Starkweather Creek lose streamflow to the groundwater system due to impacts from municipal well pumping and lack of groundwater recharge (urbanization).

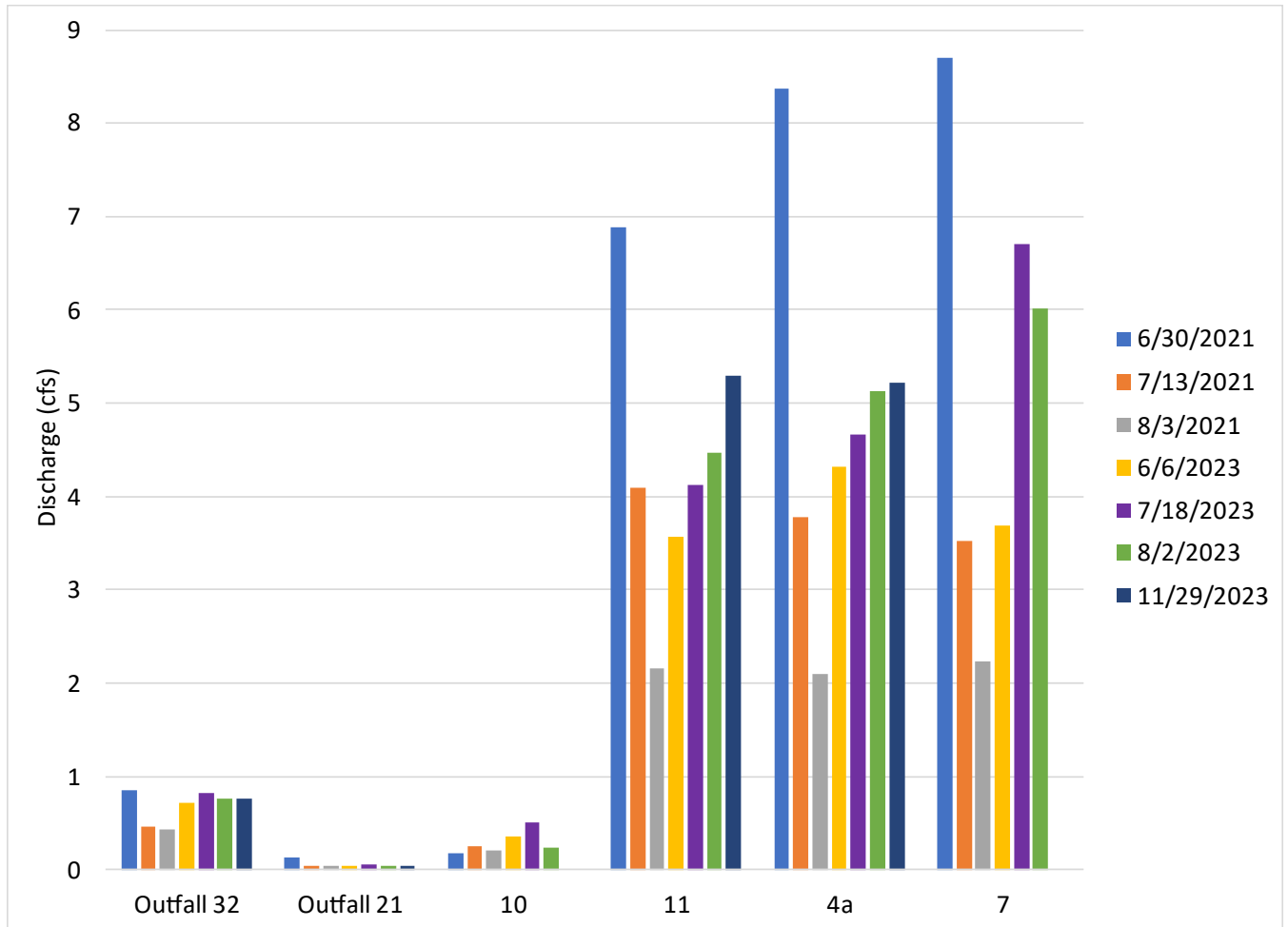


Figure 1. Discharge Results.

Conclusions

EOR measured discharge at two outfalls and four channel locations along the West Branch of Starkweather Creek, to help others develop mass loadings of PFAs in the watershed. Measurements were taken using established best practices and conducted in a consistent and repeatable manner. Discharge values have been provided in this report. Additional data (velocity, depth, etc.) from each site and event can be provided if desired.

Attachment 3
Laboratory Reports

August 06, 2021

Vista Work Order No. 2107035

Mr. Eric Oelkers
SCS Engineers
2830 Dairy Drive
Madison, WI 53718

Dear Mr. Oelkers,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on July 01, 2021 under your Project Name 'Mead & Hunt Airport Sampling 25221127.00'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

for

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2107035

Case Narrative

Sample Condition on Receipt:

Eight water samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements.

Analytical Notes:

PFAS Isotope Dilution Method

Samples "Outfall 21", "Outfall 21 DUP" and "Station 10" contained particulate and were centrifuged prior to extraction.

The samples were extracted and analyzed for a selected list of PFAS using Vista's PFAS Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	26
Certifications.....	27
Sample Receipt.....	30

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2107035-01	Outfall 32	30-Jun-21 09:10	01-Jul-21 09:32	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107035-02	Station 11	30-Jun-21 11:00	01-Jul-21 09:32	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107035-03	Outfall 21	30-Jun-21 12:35	01-Jul-21 09:32	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107035-04	Outfall 21 DUP	30-Jun-21 12:40	01-Jul-21 09:32	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107035-05	Station 10	30-Jun-21 13:35	01-Jul-21 09:32	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107035-06	Field Blank	30-Jun-21 13:45	01-Jul-21 09:32	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107035-07	Station 4A	30-Jun-21 14:10	01-Jul-21 09:32	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107035-08	Station 7	30-Jun-21 14:30	01-Jul-21 09:32	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Aqueous	Lab Sample:	B1G0066-BLK1	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.715	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFPeA	2706-90-3	ND	0.980	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFBS	375-73-5	ND	0.770	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
4:2 FTS	757124-72-4	ND	1.08	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFHxA	307-24-4	ND	1.13	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFPeS	2706-91-4	ND	0.905	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFHpA	375-85-9	ND	0.885	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFHxS	355-46-4	ND	1.08	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
6:2 FTS	27619-97-2	ND	0.965	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFOA	335-67-1	ND	1.09	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFHpS	375-92-8	ND	2.47	2.50		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFNA	375-95-1	ND	0.565	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFOSA	754-91-6	ND	1.35	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFOS	1763-23-1	ND	1.07	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFDA	335-76-2	ND	0.900	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
8:2 FTS	39108-34-4	ND	2.24	2.25		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFNS	68259-12-1	ND	1.41	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
MeFOSAA	2355-31-9	ND	0.945	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
EtFOSAA	2991-50-6	ND	2.54	2.63		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFUnA	2058-94-8	ND	1.35	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFDS	335-77-3	ND	2.71	2.75		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFDoA	307-55-1	ND	0.785	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFTTrDA	72629-94-8	ND	1.11	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
PFTeDA	376-06-7	ND	0.815	2.00		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	109	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C3-PFPeA	IS	90.6	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C3-PFBS	IS	76.8	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C2-4:2 FTS	IS	77.9	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C2-PFHxA	IS	92.7	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C4-PFHpA	IS	90.0	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C3-PFHxS	IS	77.3	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C2-6:2 FTS	IS	91.3	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C5-PFNA	IS	104	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C8-PFOSA	IS	52.5	10 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C2-PFOA	IS	89.2	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C8-PFOS	IS	85.8	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C2-PFDA	IS	81.9	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1

Sample ID: Method Blank
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Aqueous	Lab Sample:	B1G0066-BLK1	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	71.8	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
d3-MeFOSAA	IS	64.9	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C2-PFUnA	IS	71.0	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
d5-EtFOSAA	IS	63.5	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C2-PFDoA	IS	65.1	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1
13C2-PFTeDA	IS	67.0	20 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 06:50	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data					Laboratory Data				
Name:	SCS Engineers	Matrix:	Aqueous	Lab Sample:	B1G0066-BS1	Column:	BEH C18		
Project:	Mead & Hunt Airport Sampling 25221127.00								

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	42.0	40.0	105	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFPeA	2706-90-3	43.5	40.0	109	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFBS	375-73-5	43.7	40.0	109	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
4:2 FTS	757124-72-4	41.4	40.0	104	60 - 145		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFHxA	307-24-4	44.2	40.0	111	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFPeS	2706-91-4	45.2	40.0	113	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFHpA	375-85-9	43.5	40.0	109	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFHxS	355-46-4	46.1	40.0	115	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
6:2 FTS	27619-97-2	52.1	40.0	130	60 - 140		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFOA	335-67-1	47.6	40.0	119	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFHpS	375-92-8	45.5	40.0	114	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFNA	375-95-1	37.8	40.0	94.5	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFOSA	754-91-6	40.3	40.0	101	65 - 140		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFOS	1763-23-1	41.6	40.0	104	65 - 140		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFDA	335-76-2	44.2	40.0	110	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
8:2 FTS	39108-34-4	48.3	40.0	121	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFNS	68259-12-1	40.0	40.0	99.9	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
MeFOSAA	2355-31-9	47.7	40.0	119	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
EtFOSAA	2991-50-6	43.5	40.0	109	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFUnA	2058-94-8	43.6	40.0	109	65 - 140		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFDS	335-77-3	40.0	40.0	100	50 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFDaA	307-55-1	47.9	40.0	120	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFTTrDA	72629-94-8	43.2	40.0	108	60 - 140		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
PFTeDA	376-06-7	43.4	40.0	108	65 - 135		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	110	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C3-PFPeA	IS	89.8	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C3-PFBS	IS	82.3	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C2-4:2 FTS	IS	87.7	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C2-PFHxA	IS	88.0	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C4-PFHpA	IS	88.5	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C3-PFHxS	IS	77.6	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C2-6:2 FTS	IS	86.2	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C5-PFNA	IS	116	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C8-PFOSA	IS	59.1	10 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1

Sample ID: OPR
PFAS Isotope Dilution Method
Client Data

 Name: SCS Engineers
 Project: Mead & Hunt Airport Sampling 25221127.00

Matrix: Aqueous

Laboratory Data

 Lab Sample: B1G0066-BS1
 Column: BEH C18

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFOA	IS	89.0	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C8-PFOS	IS	87.1	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C2-PFDA	IS	75.7	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C2-8:2 FTS	IS	63.7	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
d3-MeFOSAA	IS	65.1	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C2-PFUnA	IS	68.8	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
d5-EtFOSAA	IS	65.8	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C2-PFDoA	IS	69.0	25 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1
13C2-PFTeDA	IS	70.0	20 - 150		B1G0066	18-Jul-21	0.250 L	30-Jul-21 07:00	1

Sample ID: Outfall 32
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-01	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 09:10	Date Received:	01-Jul-21 09:32		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	9.75	0.719	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFPeA	2706-90-3	16.2	0.986	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFBS	375-73-5	5.73	0.774	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
4:2 FTS	757124-72-4	ND	1.09	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFHxA	307-24-4	19.3	1.14	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFPeS	2706-91-4	4.88	0.910	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFHpA	375-85-9	11.7	0.890	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFHxS	355-46-4	70.9	1.08	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
6:2 FTS	27619-97-2	14.4	0.970	2.01		B1G0066	18-Jul-21	0.249 L	03-Aug-21 07:25	1
PFOA	335-67-1	19.1	1.10	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFHpS	375-92-8	3.65	2.48	2.51		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFNA	375-95-1	1.99	0.568	2.01	J	B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFOSA	754-91-6	ND	1.36	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFOS	1763-23-1	133	1.07	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFDA	335-76-2	1.46	0.905	2.01	J	B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
8:2 FTS	39108-34-4	3.73	2.25	2.26		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFNS	68259-12-1	ND	1.42	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
MeFOSAA	2355-31-9	ND	0.950	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
EtFOSAA	2991-50-6	ND	2.55	2.64		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFUnA	2058-94-8	ND	1.35	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFDS	335-77-3	ND	2.72	2.77		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFDoA	307-55-1	ND	0.789	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFTTrDA	72629-94-8	ND	1.11	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
PFTeDA	376-06-7	ND	0.820	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	110	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C3-PFPeA	IS	92.9	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C3-PFBS	IS	93.1	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C2-4:2 FTS	IS	83.2	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C2-PFHxA	IS	97.0	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C4-PFHpA	IS	95.2	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C3-PFHxS	IS	78.6	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C2-6:2 FTS	IS	106	25 - 150		B1G0066	18-Jul-21	0.249 L	03-Aug-21 07:25	1
13C5-PFNA	IS	108	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C8-PFOSA	IS	71.7	10 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C2-PFOA	IS	85.5	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1
13C8-PFOS	IS	89.9	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1

Sample ID: Outfall 32				PFAS Isotope Dilution Method								
Client Data				Laboratory Data								
Name:	SCS Engineers		Matrix:	Water			Lab Sample:	2107035-01		Column:	BEH C18	
Project:	Mead & Hunt Airport Sampling 25221127.00		Date Collected:	30-Jun-21 09:10			Date Received:	01-Jul-21 09:32				
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution			
13C2-PFDA	IS	83.8	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1			
13C2-8:2 FTS	IS	86.9	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1			
d3-MeFOSAA	IS	76.0	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1			
13C2-PFUnA	IS	77.6	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1			
d5-EtFOSAA	IS	80.1	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1			
13C2-PFD _o A	IS	76.3	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1			
13C2-PFTeDA	IS	70.3	20 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 07:11	1			

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 11
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-02	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 11:00	Date Received:	01-Jul-21 09:32		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	6.98	0.729	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFPeA	2706-90-3	8.29	0.999	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFBS	375-73-5	4.66	0.785	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
4:2 FTS	757124-72-4	ND	1.10	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFHxA	307-24-4	12.0	1.15	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFPeS	2706-91-4	4.27	0.923	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFHpA	375-85-9	3.96	0.902	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFHxS	355-46-4	47.1	1.10	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
6:2 FTS	27619-97-2	3.15	0.984	2.04		B1G0066	18-Jul-21	0.245 L	03-Aug-21 07:36	1
PFOA	335-67-1	14.3	1.11	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFHpS	375-92-8	ND	2.52	2.55		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFNA	375-95-1	1.29	0.576	2.04	J, Q	B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFOSA	754-91-6	ND	1.38	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFOS	1763-23-1	34.8	1.09	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFDA	335-76-2	1.04	0.917	2.04	J	B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
8:2 FTS	39108-34-4	ND	2.28	2.29		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFNS	68259-12-1	ND	1.44	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
MeFOSAA	2355-31-9	ND	0.963	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
EtFOSAA	2991-50-6	ND	2.58	2.68		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFUnA	2058-94-8	ND	1.37	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFDS	335-77-3	ND	2.76	2.80		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFDoA	307-55-1	ND	0.800	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFTTrDA	72629-94-8	ND	1.13	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
PFTeDA	376-06-7	ND	0.831	2.04		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	109	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C3-PFPeA	IS	94.3	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C3-PFBS	IS	90.0	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C2-4:2 FTS	IS	89.5	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C2-PFHxA	IS	92.1	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C4-PFHpA	IS	94.0	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C3-PFHxS	IS	87.6	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C2-6:2 FTS	IS	90.2	25 - 150		B1G0066	18-Jul-21	0.245 L	03-Aug-21 07:36	1
13C5-PFNA	IS	120	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C8-PFOSA	IS	75.8	10 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C2-PFOA	IS	91.2	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C8-PFOS	IS	98.0	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1

Sample ID: Station 11
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-02	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 11:00	Date Received:	01-Jul-21 09:32		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	81.7	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C2-8:2 FTS	IS	85.8	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
d3-MeFOSAA	IS	75.6	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C2-PFUnA	IS	82.7	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
d5-EtFOSAA	IS	83.0	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C2-PFD _o A	IS	71.7	25 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1
13C2-PFTeDA	IS	68.3	20 - 150		B1G0066	18-Jul-21	0.245 L	30-Jul-21 07:21	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Outfall 21
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-03	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 12:35	Date Received:	01-Jul-21 09:32		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	90.1	0.723	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFPeA	2706-90-3	272	0.991	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFBS	375-73-5	238	0.779	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
4:2 FTS	757124-72-4	4.93	1.09	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFHxA	307-24-4	323	1.14	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFPeS	2706-91-4	300	0.915	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFHpA	375-85-9	84.4	0.895	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFHxS	355-46-4	1910	1.09	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
6:2 FTS	27619-97-2	1020	0.976	2.02		B1G0066	18-Jul-21	0.247 L	03-Aug-21 07:46	1
PFOA	335-67-1	210	1.10	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFHpS	375-92-8	86.6	2.50	2.53		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFNA	375-95-1	14.2	0.571	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFOSA	754-91-6	ND	1.36	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFOS	1763-23-1	4620	5.38	10.1	D	B1G0066	18-Jul-21	0.247 L	05-Aug-21 10:29	5
PFDA	335-76-2	2.08	0.910	2.02	Q	B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
8:2 FTS	39108-34-4	67.5	2.26	2.27		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFNS	68259-12-1	ND	1.43	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
MeFOSAA	2355-31-9	ND	0.955	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
EtFOSAA	2991-50-6	ND	2.56	2.65		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFUnA	2058-94-8	ND	1.36	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFDS	335-77-3	ND	2.73	2.78		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFDoA	307-55-1	ND	0.794	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFTTrDA	72629-94-8	ND	1.12	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
PFTeDA	376-06-7	ND	0.824	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	106	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C3-PFPeA	IS	93.1	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C3-PFBS	IS	94.3	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C2-4:2 FTS	IS	90.0	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C2-PFHxA	IS	94.0	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C4-PFHpA	IS	99.2	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C3-PFHxS	IS	78.8	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C2-6:2 FTS	IS	83.5	25 - 150		B1G0066	18-Jul-21	0.247 L	03-Aug-21 07:46	1
13C5-PFNA	IS	110	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C8-PFOSA	IS	50.5	10 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C2-PFOA	IS	86.1	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C8-PFOS	IS	69.0	25 - 150	D	B1G0066	18-Jul-21	0.247 L	05-Aug-21 10:29	5

Sample ID: Outfall 21
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-03	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 12:35	Date Received:	01-Jul-21 09:32		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	89.6	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C2-8:2 FTS	IS	72.8	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
d3-MeFOSAA	IS	71.3	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C2-PFUnA	IS	72.9	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
d5-EtFOSAA	IS	74.7	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C2-PFD _o A	IS	70.4	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1
13C2-PFTeDA	IS	55.1	20 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:32	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Outfall 21 DUP

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-04	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 12:40	Date Received:	01-Jul-21 09:32		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	64.6	0.726	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFPeA	2706-90-3	196	0.995	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFBS	375-73-5	171	0.781	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
4:2 FTS	757124-72-4	3.10	1.10	2.03	Q	B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFHxA	307-24-4	229	1.15	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFPeS	2706-91-4	217	0.918	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFHpA	375-85-9	62.7	0.898	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFHxS	355-46-4	1520	1.09	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
6:2 FTS	27619-97-2	735	0.979	2.03		B1G0066	18-Jul-21	0.246 L	03-Aug-21 07:57	1
PFOA	335-67-1	151	1.11	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFHpS	375-92-8	71.4	2.51	2.54		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFNA	375-95-1	10.4	0.573	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFOSA	754-91-6	ND	1.37	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFOS	1763-23-1	3120	5.40	10.1	D	B1G0066	18-Jul-21	0.246 L	05-Aug-21 10:40	5
PFDA	335-76-2	2.00	0.913	2.03	J	B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
8:2 FTS	39108-34-4	40.3	2.27	2.28		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFNS	68259-12-1	1.51	1.43	2.03	J	B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
MeFOSAA	2355-31-9	ND	0.959	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
EtFOSAA	2991-50-6	ND	2.57	2.66		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFUnA	2058-94-8	ND	1.37	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFDS	335-77-3	ND	2.75	2.79		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFDoA	307-55-1	ND	0.797	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFTTrDA	72629-94-8	ND	1.12	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
PFTeDA	376-06-7	ND	0.827	2.03		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	116	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C3-PFPeA	IS	95.7	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C3-PFBS	IS	95.3	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C2-4:2 FTS	IS	90.2	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C2-PFHxA	IS	98.6	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C4-PFHpA	IS	99.5	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C3-PFHxS	IS	71.7	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C2-6:2 FTS	IS	86.8	25 - 150		B1G0066	18-Jul-21	0.246 L	03-Aug-21 07:57	1
13C5-PFNA	IS	114	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C8-PFOSA	IS	60.7	10 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C2-PFOA	IS	96.9	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C8-PFOS	IS	77.5	25 - 150	D	B1G0066	18-Jul-21	0.246 L	05-Aug-21 10:40	5

Sample ID: Outfall 21 DUP	PFAS Isotope Dilution Method
----------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Water
Project: Mead & Hunt Airport Sampling 25221127.00	Date Collected: 30-Jun-21 12:40
	Lab Sample: 2107035-04
	Date Received: 01-Jul-21 09:32
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	92.2	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C2-8:2 FTS	IS	82.1	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
d3-MeFOSAA	IS	72.6	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C2-PFUnA	IS	77.7	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
d5-EtFOSAA	IS	75.4	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C2-PFD _o A	IS	69.6	25 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1
13C2-PFTeDA	IS	50.2	20 - 150		B1G0066	18-Jul-21	0.246 L	30-Jul-21 07:42	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 10
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-05	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 13:35	Date Received:	01-Jul-21 09:32		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	37.6	0.723	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFPeA	2706-90-3	131	0.991	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFBS	375-73-5	81.5	0.779	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
4:2 FTS	757124-72-4	4.36	1.09	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFHxA	307-24-4	166	1.14	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFPeS	2706-91-4	97.7	0.915	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFHpA	375-85-9	44.9	0.895	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFHxS	355-46-4	802	1.09	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
6:2 FTS	27619-97-2	414	0.976	2.02		B1G0066	18-Jul-21	0.247 L	03-Aug-21 08:07	1
PFOA	335-67-1	162	1.10	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFHpS	375-92-8	37.0	2.50	2.53		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFNA	375-95-1	8.94	0.571	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFOSA	754-91-6	2.43	1.37	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFOS	1763-23-1	1960	1.08	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFDA	335-76-2	1.18	0.910	2.02	J	B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
8:2 FTS	39108-34-4	22.1	2.27	2.28		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFNS	68259-12-1	ND	1.43	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
MeFOSAA	2355-31-9	ND	0.956	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
EtFOSAA	2991-50-6	ND	2.56	2.65		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFUnA	2058-94-8	ND	1.36	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFDS	335-77-3	ND	2.74	2.78		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFDoA	307-55-1	ND	0.794	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFTTrDA	72629-94-8	ND	1.12	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
PFTeDA	376-06-7	ND	0.824	2.02		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	39.6	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C3-PFPeA	IS	99.5	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C3-PFBS	IS	96.5	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C2-4:2 FTS	IS	73.9	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C2-PFHxA	IS	92.4	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C4-PFHpA	IS	96.7	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C3-PFHxS	IS	84.5	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C2-6:2 FTS	IS	85.9	25 - 150		B1G0066	18-Jul-21	0.247 L	03-Aug-21 08:07	1
13C5-PFNA	IS	114	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C8-PFOSA	IS	72.2	10 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C2-PFOA	IS	87.2	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C8-PFOS	IS	77.2	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1

Sample ID: Station 10	PFAS Isotope Dilution Method
------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Lab Sample: 2107035-05
Project: Mead & Hunt Airport Sampling 25221127.00	Date Received: 01-Jul-21 09:32
Matrix: Water	Column: BEH C18
Date Collected: 30-Jun-21 13:35	

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	75.4	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C2-8:2 FTS	IS	71.8	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
d3-MeFOSAA	IS	70.8	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C2-PFUnA	IS	67.7	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
d5-EtFOSAA	IS	63.6	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C2-PFD _o A	IS	61.5	25 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1
13C2-PFTeDA	IS	53.2	20 - 150		B1G0066	18-Jul-21	0.247 L	30-Jul-21 07:53	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Field Blank
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-06	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 13:45	Date Received:	01-Jul-21 09:32		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.719	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFPeA	2706-90-3	ND	0.985	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFBS	375-73-5	ND	0.774	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
4:2 FTS	757124-72-4	ND	1.09	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFHxA	307-24-4	ND	1.14	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFPeS	2706-91-4	ND	0.910	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFHpA	375-85-9	ND	0.889	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFHxS	355-46-4	ND	1.08	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
6:2 FTS	27619-97-2	ND	0.970	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFOA	335-67-1	ND	1.10	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFHpS	375-92-8	ND	2.48	2.51		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFNA	375-95-1	ND	0.568	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFOSA	754-91-6	ND	1.36	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFOS	1763-23-1	ND	1.07	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFDA	335-76-2	ND	0.905	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
8:2 FTS	39108-34-4	ND	2.25	2.26		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFNS	68259-12-1	ND	1.42	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
MeFOSAA	2355-31-9	ND	0.950	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
EtFOSAA	2991-50-6	ND	2.55	2.64		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFUnA	2058-94-8	ND	1.35	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFDS	335-77-3	ND	2.72	2.76		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFDoA	307-55-1	ND	0.789	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFTTrDA	72629-94-8	ND	1.11	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
PFTeDA	376-06-7	ND	0.819	2.01		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	111	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C3-PFPeA	IS	98.2	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C3-PFBS	IS	98.4	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C2-4:2 FTS	IS	87.7	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C2-PFHxA	IS	93.0	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C4-PFHpA	IS	94.4	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C3-PFHxS	IS	90.2	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C2-6:2 FTS	IS	89.3	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C5-PFNA	IS	119	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C8-PFOSA	IS	53.5	10 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C2-PFOA	IS	91.7	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1
13C8-PFOS	IS	101	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1

Sample ID: Field Blank					PFAS Isotope Dilution Method						
Client Data				Laboratory Data							
Name:	SCS Engineers		Matrix:	Water		Lab Sample:	2107035-06		Column:	BEH C18	
Project:	Mead & Hunt Airport Sampling 25221127.00		Date Collected:	30-Jun-21 13:45		Date Received:	01-Jul-21 09:32				
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C2-PFDA	IS	91.5	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1		
13C2-8:2 FTS	IS	74.7	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1		
d3-MeFOSAA	IS	79.4	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1		
13C2-PFUnA	IS	79.0	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1		
d5-EtFOSAA	IS	71.4	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1		
13C2-PFD _o A	IS	74.8	25 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1		
13C2-PFTeDA	IS	77.0	20 - 150		B1G0066	18-Jul-21	0.249 L	30-Jul-21 08:03	1		

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 4A
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-07	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 14:10	Date Received:	01-Jul-21 09:32		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	12.9	0.748	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFPeA	2706-90-3	29.9	1.03	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFBS	375-73-5	16.4	0.806	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
4:2 FTS	757124-72-4	ND	1.13	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFHxA	307-24-4	32.4	1.18	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFPeS	2706-91-4	15.0	0.947	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFHpA	375-85-9	11.4	0.926	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFHxS	355-46-4	184	1.13	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
6:2 FTS	27619-97-2	54.8	1.01	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFOA	335-67-1	34.3	1.14	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFHpS	375-92-8	5.92	2.58	2.62		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFNA	375-95-1	2.15	0.591	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFOSA	754-91-6	ND	1.41	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFOS	1763-23-1	314	1.11	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFDA	335-76-2	ND	0.942	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
8:2 FTS	39108-34-4	4.41	2.34	2.35		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFNS	68259-12-1	ND	1.48	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
MeFOSAA	2355-31-9	ND	0.989	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
EtFOSAA	2991-50-6	ND	2.65	2.75		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFUnA	2058-94-8	ND	1.41	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFDS	335-77-3	ND	2.83	2.88		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFDoA	307-55-1	ND	0.822	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFTTrDA	72629-94-8	ND	1.16	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
PFTeDA	376-06-7	ND	0.853	2.09		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	94.7	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C3-PFPeA	IS	88.1	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C3-PFBS	IS	94.7	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C2-4:2 FTS	IS	76.5	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C2-PFHxA	IS	94.1	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C4-PFHpA	IS	87.3	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C3-PFHxS	IS	76.9	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C2-6:2 FTS	IS	93.8	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C5-PFNA	IS	112	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C8-PFOSA	IS	66.8	10 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C2-PFOA	IS	91.8	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C8-PFOS	IS	79.1	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1

Sample ID: Station 4A	PFAS Isotope Dilution Method
------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Water
Project: Mead & Hunt Airport Sampling 25221127.00	Date Collected: 30-Jun-21 14:10
	Lab Sample: 2107035-07
	Date Received: 01-Jul-21 09:32
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	84.7	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C2-8:2 FTS	IS	68.2	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
d3-MeFOSAA	IS	70.7	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C2-PFUnA	IS	69.6	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
d5-EtFOSAA	IS	72.3	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C2-PFD _o A	IS	72.6	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1
13C2-PFTeDA	IS	60.6	20 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:45	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 7
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107035-08	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling 25221127.00	Date Collected:	30-Jun-21 14:30	Date Received:	01-Jul-21 09:32		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	11.3	0.749	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFPeA	2706-90-3	18.8	1.03	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFBS	375-73-5	10.5	0.807	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
4:2 FTS	757124-72-4	ND	1.13	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFHxA	307-24-4	24.5	1.18	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFPeS	2706-91-4	12.5	0.948	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFHpA	375-85-9	8.73	0.927	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFHxS	355-46-4	105	1.13	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
6:2 FTS	27619-97-2	41.8	1.01	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFOA	335-67-1	23.5	1.14	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFHpS	375-92-8	ND	2.59	2.62		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFNA	375-95-1	2.06	0.592	2.10	J, Q	B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFOSA	754-91-6	ND	1.41	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFOS	1763-23-1	155	1.12	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFDA	335-76-2	0.947	0.943	2.10	J	B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
8:2 FTS	39108-34-4	ND	2.35	2.36		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFNS	68259-12-1	ND	1.48	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
MeFOSAA	2355-31-9	ND	0.990	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
EtFOSAA	2991-50-6	ND	2.66	2.75		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFUnA	2058-94-8	ND	1.41	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFDS	335-77-3	ND	2.83	2.88		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFDoA	307-55-1	ND	0.823	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFTTrDA	72629-94-8	ND	1.16	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
PFTeDA	376-06-7	ND	0.854	2.10		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	95.4	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C3-PFPeA	IS	91.5	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C3-PFBS	IS	101	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C2-4:2 FTS	IS	86.9	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C2-PFHxA	IS	92.9	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C4-PFHpA	IS	92.5	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C3-PFHxS	IS	84.3	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C2-6:2 FTS	IS	83.1	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C5-PFNA	IS	104	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C8-PFOSA	IS	69.4	10 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C2-PFOA	IS	88.6	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C8-PFOS	IS	88.7	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1

Sample ID: Station 7	PFAS Isotope Dilution Method
-----------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Lab Sample: 2107035-08
Project: Mead & Hunt Airport Sampling 25221127.00	Date Received: 01-Jul-21 09:32
Matrix: Water	Column: BEH C18
Date Collected: 30-Jun-21 14:30	

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	82.1	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C2-8:2 FTS	IS	72.4	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
d3-MeFOSAA	IS	73.6	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C2-PFUnA	IS	71.3	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
d5-EtFOSAA	IS	77.1	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C2-PFD _o A	IS	70.6	25 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1
13C2-PFTeDA	IS	63.5	20 - 150		B1G0066	18-Jul-21	0.239 L	30-Jul-21 08:56	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 2107035 Temp: 2.0 °C
 Storage ID: R-13-WY-2 Storage Secured: Yes No

Project ID: Mead & Hunt Airport Sampling PO#: _____ Sampler: Ryan Matzenk
2522127.00 (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Specify: _____

Relinquished by (printed name and signature) Ryan Matzenk Date 6/30/21 Time 1600 Received by (printed name and signature) Karen Y. Aust Date 07/01/21 Time 09:22

Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 ATTN: _____
 Method of Shipment: _____
 Tracking No.: _____

Add Analysis(es) Requested
 Container(s) _____
 PFAS by Isotope Dilution
 EPA Method 537 (DW only)
 OTHER: Please attach analyte list

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFOA/ PFOS	UCMR3 PFAS List:6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	Comments
Outfall 32	6/30	910		2	P	W			X		
Station 11	6/30	1100							X		
Outfall 21	6/30	1235							X		
Outfall 21 DUP	6/30	1240							X		
Station 10	6/30	1335							X		
Field Blank	6/30	1345							X		
Station 4A	6/30	1410							X		
Station 07	6/30	1430							X		

Special Instructions/Comment

SEND DOCUMENTATION AND RESULTS TO:
 Name: Eric Oelkers
 Company: SCS Engineers
 Address: 2830 Dairy Dr.
 City: Madison State: WI Zip: 53718
 Phone: 608-444-3934
 Email: E.Oelkers@scsengineers.com

Container Types: P = HDPE, PJ = HDPE Jar
 PY = Polypropylene, O = Other _____
 Bottle Preservation Type: _____
 TZ = Trizma: _____
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other _____

4.2.2 Analytical Parameters and Methods

Creek samples will be collected manually, as grab samples at each location. Each sample will be analyzed for appropriate PFAS compounds using Method 537 (Modified). Samples collected will be submitted to a certified, qualified Laboratory for analysis. Table 1 provides a summary of PFAS compounds to be analyzed and expected quantitation limits as provided by the laboratory.

Table 1. Summary of Stormwater Sampling PFAS Analytical Parameters.

Analyte Name	CAS#	Analyte	RL (ng/l)
Perfluorobutanoic acid	375-22-4	PFBA	6.9
Perfluoropentanoic acid	2706-90-3	PFPeA	3.4
Perfluorobutanesulfonic acid	375-73-5	PFBS	3.4
Perfluorohexanoic acid	307-24-4	PFHxA	3.4
Perfluoroheptanoic acid	375-85-9	PFHpA	3.4
Perfluorohexanesulfonic acid	355-46-4	PFHxS	3.4
6:2 Fluorotelomer sulfonic acid	27619-97-2	6:2-FTS	6.9
Perfluorooctanoic acid	335-67-1	PFOA	3.4
Perfluoroheptanesulfonic acid	375-92-8	PFHpS	3.4
Perfluorooctanesulfonic acid	1763-23-1	PFOS	3.4
Perfluorononanoic acid	375-95-1	PFNA	3.4
Perfluorodecanoic acid	335-76-2	PFDA	3.4
8:2 Fluorotelomer sulfonic acid	39108-34-4	8:2-FTS	6.9
Perfluorooctane sulfonamide	754-91-6	PFOSA	3.4
Perfluorodecanesulfonic acid	335-77-3	PFDS	3.4
Perfluoroundecanoic acid	2058-94-8	PFUnA/PFUdA	3.4
Perfluorododecanoic acid	307-55-1	PFDoA	3.4
Perfluorotridecanoic acid	72629-94-8	PFTTrDA	3.4
Perfluorotetradecanoic acid	376-06-7	PFTeDA	3.4
N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	EtFOSAA	17.0
N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9	MeFOSAA	17.0
4:2 Fluorotelomer sulfonic acid	757124-72-4	4:2-FTS	6.9
Perfluoropentane sulfonic acid	2706-91-4	PFPeS	3.4
Perfluorononane sulfonic acid	68259-12-1	PFNS	3.4

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2107035 TAT STO

Samples Arrival:	Date/Time: <u>07/01/21 09:22</u>	Initials: <u>JA</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N12</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
	<input type="checkbox"/> Other		
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Techni Ice
	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None	
Temp °C: <u>2.9</u> (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: <u>IR-4</u>
Temp °C: <u>2.8</u> (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u> </u> Trk # <u>7741 4631 8874</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	Vista	<input checked="" type="checkbox"/> Client	Retain
		<input checked="" type="checkbox"/> Return	Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time: <u>07/02/21 12:10</u>	Initials: <u>[Signature]</u>	Location: <u>R-13 NY-2</u> ↓ ↓ Shelf/Rack: <u>A-4 F-6</u>
COC Anomaly/Sample Acceptance Form completed?			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2107035

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2107035-01	A Outfall 32	<input checked="" type="checkbox"/>	30-Jun-21 09:10	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-01	B Outfall 32	<input checked="" type="checkbox"/>	30-Jun-21 09:10	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-02	A Station 11	<input checked="" type="checkbox"/>	30-Jun-21 11:00	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-02	B Station 11	<input checked="" type="checkbox"/>	30-Jun-21 11:00	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-03	A Outfall 21	<input checked="" type="checkbox"/>	30-Jun-21 12:35	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-03	B Outfall 21	<input checked="" type="checkbox"/>	30-Jun-21 12:35	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-04	A Outfall 21 DUP	<input checked="" type="checkbox"/>	30-Jun-21 12:40	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-04	B Outfall 21 DUP	<input checked="" type="checkbox"/>	30-Jun-21 12:40	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-05	A Station 10	<input checked="" type="checkbox"/>	30-Jun-21 13:35	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-05	B Station 10	<input checked="" type="checkbox"/>	30-Jun-21 13:35	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-06	A Field Blank	<input checked="" type="checkbox"/>	30-Jun-21 13:45	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-06	B Field Blank	<input checked="" type="checkbox"/>	30-Jun-21 13:45	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-07	A Station 4A	<input checked="" type="checkbox"/>	30-Jun-21 14:10	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-07	B Station 4A	<input checked="" type="checkbox"/>	30-Jun-21 14:10	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-08	A Station 7	<input checked="" type="checkbox"/>	30-Jun-21 14:30	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2107035-08	B Station 7	<input checked="" type="checkbox"/>	30-Jun-21 14:30	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?		✓	✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		

Comments:

A: Sample ID Present under "Location" section of label.

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None All Other

Verified by/Date:  07/08/21

September 28, 2021

Vista Work Order No. 2108031

Mr. Eric Oelkers
SCS Engineers
2830 Dairy Drive
Madison, WI 53718

Dear Mr. Oelkers,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on August 04, 2021 under your Project Name 'Mead & Hunt Airport PFAS Sampling / 25221127.00'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at jfox@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Jamie Fox
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2108031

Case Narrative

Sample Condition on Receipt:

Eight aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements.

Analytical Notes:

PFAS Isotope Dilution Method

Samples "Outfall 21" and "Outfall 21 DUP" contained particulate and were centrifuged prior to extraction.

The samples were extracted and analyzed for a selected list of PFAS using Vista's PFAS Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2108031-03	Outfall 21	PFAS Isotope Dilution Method	13C3-PFHxS	H	209
2108031-03	Outfall 21	PFAS Isotope Dilution Method	13C2-6:2 FTS	H	210
2108031-03	Outfall 21	PFAS Isotope Dilution Method	13C8-PFOS	H	180
2108031-04	Outfall 21 DUP	PFAS Isotope Dilution Method	13C3-PFHxS	H	159
2108031-04	Outfall 21 DUP	PFAS Isotope Dilution Method	13C2-6:2 FTS	H	294

H = Recovery was outside laboratory acceptance criteria.

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	26
Certifications.....	27
Sample Receipt.....	30

Sample Inventory Report



Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2108031-01	Outfall 32	03-Aug-21 09:25	04-Aug-21 12:19	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2108031-02	Station 11	03-Aug-21 09:50	04-Aug-21 12:19	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2108031-03	Outfall 21	03-Aug-21 10:00	04-Aug-21 12:19	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2108031-04	Outfall 21 DUP	03-Aug-21 10:00	04-Aug-21 12:19	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2108031-05	Station 10	03-Aug-21 10:10	04-Aug-21 12:19	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2108031-06	Field Blank	03-Aug-21 10:15	04-Aug-21 12:19	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2108031-07	Station 4A	03-Aug-21 10:35	04-Aug-21 12:19	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2108031-08	Station 7	03-Aug-21 11:00	04-Aug-21 12:19	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Aqueous	Lab Sample:	B1H0030-BLK1	Column:	BEH C18
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.715	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFPeA	2706-90-3	ND	0.980	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFBS	375-73-5	ND	0.770	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
4:2 FTS	757124-72-4	ND	1.08	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFHxA	307-24-4	ND	1.13	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFPeS	2706-91-4	ND	0.905	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFHpA	375-85-9	ND	0.885	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFHxS	355-46-4	ND	1.08	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
6:2 FTS	27619-97-2	ND	0.965	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFOA	335-67-1	ND	1.09	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFHpS	375-92-8	ND	2.47	2.50		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFNA	375-95-1	ND	0.565	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFOSA	754-91-6	ND	1.35	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFOS	1763-23-1	ND	1.07	4.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFDA	335-76-2	ND	0.900	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
8:2 FTS	39108-34-4	ND	2.24	2.25		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFNS	68259-12-1	ND	1.41	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
MeFOSAA	2355-31-9	ND	0.945	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
EtFOSAA	2991-50-6	ND	2.54	2.63		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFUnA	2058-94-8	ND	1.35	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFDS	335-77-3	ND	2.71	2.75		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFDoA	307-55-1	ND	0.785	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFTTrDA	72629-94-8	ND	1.11	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
PFTeDA	376-06-7	ND	0.815	2.00		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	103	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C3-PFPeA	IS	64.0	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C3-PFBS	IS	60.2	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C2-4:2 FTS	IS	42.4	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C2-PFHxA	IS	56.8	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C4-PFHpA	IS	58.2	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C3-PFHxS	IS	47.4	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C2-6:2 FTS	IS	50.7	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C5-PFNA	IS	58.6	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C8-PFOSA	IS	31.5	10 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C2-PFOA	IS	56.5	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C8-PFOS	IS	47.2	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C2-PFDA	IS	53.3	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1

Sample ID: Method Blank	PFAS Isotope Dilution Method
--------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Aqueous
Project: Mead & Hunt Airport PFAS Sampling / 25221127.00	Lab Sample: B1H0030-BLK1
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	43.4	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
d3-MeFOSAA	IS	53.3	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C2-PFUnA	IS	44.5	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
d5-EtFOSAA	IS	42.3	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C2-PFDoA	IS	44.1	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1
13C2-PFTeDA	IS	46.5	20 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:22	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data					Laboratory Data						
Name:	SCS Engineers	Matrix:	Aqueous	Lab Sample:	B1H0030-BS1	Column:	BEH C18				
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.0										

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	39.6	40.0	98.9	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFPeA	2706-90-3	44.4	40.0	111	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFBS	375-73-5	36.3	40.0	90.7	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
4:2 FTS	757124-72-4	40.5	40.0	101	60 - 145		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFHxA	307-24-4	39.4	40.0	98.4	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFPeS	2706-91-4	35.6	40.0	89.1	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFHpA	375-85-9	38.4	40.0	96.1	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFHxS	355-46-4	45.3	40.0	113	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
6:2 FTS	27619-97-2	40.1	40.0	100	60 - 140		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFOA	335-67-1	43.8	40.0	110	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFHpS	375-92-8	44.6	40.0	112	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFNA	375-95-1	48.0	40.0	120	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFOSA	754-91-6	43.4	40.0	108	65 - 140		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFOS	1763-23-1	45.2	40.0	113	65 - 140		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFDA	335-76-2	47.8	40.0	120	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
8:2 FTS	39108-34-4	31.2	40.0	78.0	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFNS	68259-12-1	38.4	40.0	96.1	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
MeFOSAA	2355-31-9	47.6	40.0	119	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
EtFOSAA	2991-50-6	41.0	40.0	102	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFUnA	2058-94-8	41.1	40.0	103	65 - 140		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFDS	335-77-3	43.3	40.0	108	50 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFDoA	307-55-1	40.6	40.0	102	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFTTrDA	72629-94-8	45.0	40.0	112	60 - 140		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
PFTeDA	376-06-7	49.6	40.0	124	65 - 135		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	112	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C3-PFPeA	IS	72.2	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C3-PFBS	IS	66.3	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C2-4:2 FTS	IS	49.2	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C2-PFHxA	IS	59.8	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C4-PFHpA	IS	64.3	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C3-PFHxS	IS	53.3	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C2-6:2 FTS	IS	65.1	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C5-PFNA	IS	57.4	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C8-PFOSA	IS	42.0	10 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1

Sample ID: OPR
PFAS Isotope Dilution Method
Client Data

 Name: SCS Engineers Matrix: Aqueous
 Project: Mead & Hunt Airport PFAS Sampling / 25221127.0

Laboratory Data

Lab Sample: B1H0030-BS1 Column: BEH C18

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFOA	IS	62.2	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C8-PFOS	IS	51.0	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C2-PFDA	IS	58.7	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C2-8:2 FTS	IS	57.6	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
d3-MeFOSAA	IS	63.5	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C2-PFUnA	IS	55.8	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
d5-EtFOSAA	IS	45.9	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C2-PFDoA	IS	42.6	25 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1
13C2-PFTeDA	IS	49.5	20 - 150		B1H0030	23-Aug-21	0.250 L	26-Aug-21 13:33	1

Sample ID: Outfall 32
PFAS Isotope Dilution Method

Client Data					Laboratory Data					
Name:	SCS Engineers		Matrix:	Aqueous	Lab Sample:	2108031-01	Column:	BEH C18		
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00		Date Collected:	03-Aug-21 09:25	Date Received:	04-Aug-21 12:19				

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	27.4	0.720	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFPeA	2706-90-3	67.6	0.987	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFBS	375-73-5	26.7	0.775	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
4:2 FTS	757124-72-4	ND	1.09	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFHxA	307-24-4	78.9	1.14	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFPeS	2706-91-4	28.2	0.911	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFHpA	375-85-9	40.3	0.891	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFHxS	355-46-4	241	1.08	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
6:2 FTS	27619-97-2	52.7	0.972	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFOA	335-67-1	88.5	1.10	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFHpS	375-92-8	9.91	2.49	2.52		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFNA	375-95-1	ND	0.569	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFOSA	754-91-6	ND	1.36	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFOS	1763-23-1	450	1.07	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFDA	335-76-2	ND	0.906	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
8:2 FTS	39108-34-4	8.12	2.26	2.27		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFNS	68259-12-1	ND	1.42	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
MeFOSAA	2355-31-9	ND	0.952	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
EtFOSAA	2991-50-6	ND	2.55	2.64		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFUnA	2058-94-8	ND	1.35	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFDS	335-77-3	ND	2.72	2.77		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFDoA	307-55-1	ND	0.791	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFTTrDA	72629-94-8	ND	1.11	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
PFTeDA	376-06-7	ND	0.821	2.01		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	102	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C3-PFPeA	IS	100	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C3-PFBS	IS	89.1	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C2-4:2 FTS	IS	80.4	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C2-PFHxA	IS	76.4	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C4-PFHpA	IS	80.6	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C3-PFHxS	IS	86.8	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C2-6:2 FTS	IS	88.6	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C5-PFNA	IS	80.9	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C8-PFOSA	IS	47.9	10 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C2-PFOA	IS	83.3	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C8-PFOS	IS	81.6	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1

Sample ID: Outfall 32	PFAS Isotope Dilution Method
------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Lab Sample: 2108031-01
Project: Mead & Hunt Airport PFAS Sampling / 25221127.00	Date Received: 04-Aug-21 12:19
Matrix: Aqueous	Column: BEH C18
Date Collected: 03-Aug-21 09:25	

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	76.4	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C2-8:2 FTS	IS	82.8	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
d3-MeFOSAA	IS	83.8	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C2-PFUnA	IS	72.6	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
d5-EtFOSAA	IS	75.4	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C2-PFD _o A	IS	73.1	25 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1
13C2-PFTeDA	IS	67.7	20 - 150		B1H0030	23-Aug-21	0.248 L	14-Sep-21 17:50	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 11
PFAS Isotope Dilution Method

Client Data					Laboratory Data					
Name:	SCS Engineers		Matrix:	Aqueous	Lab Sample:	2108031-02	Column:	BEH C18		
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00		Date Collected:	03-Aug-21 09:50	Date Received:	04-Aug-21 12:19				

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	12.3	0.771	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFPeA	2706-90-3	15.7	1.06	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFBS	375-73-5	8.60	0.831	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
4:2 FTS	757124-72-4	ND	1.17	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFHxA	307-24-4	20.3	1.22	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFPeS	2706-91-4	4.64	0.976	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFHpA	375-85-9	ND	0.955	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFHxS	355-46-4	65.0	1.16	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
6:2 FTS	27619-97-2	ND	1.04	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFOA	335-67-1	30.3	1.18	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFHpS	375-92-8	ND	2.66	2.70		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFNA	375-95-1	ND	0.610	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFOSA	754-91-6	ND	1.46	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFOS	1763-23-1	27.7	1.15	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFDA	335-76-2	ND	0.971	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
8:2 FTS	39108-34-4	ND	2.42	2.43		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFNS	68259-12-1	ND	1.52	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
MeFOSAA	2355-31-9	ND	1.02	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
EtFOSAA	2991-50-6	ND	2.73	2.83		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFUnA	2058-94-8	ND	1.45	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFDS	335-77-3	ND	2.92	2.97		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFDoA	307-55-1	ND	0.847	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFTTrDA	72629-94-8	ND	1.19	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
PFTeDA	376-06-7	ND	0.879	2.16		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.8	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C3-PFPeA	IS	95.1	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C3-PFBS	IS	86.0	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C2-4:2 FTS	IS	84.0	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C2-PFHxA	IS	79.6	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C4-PFHpA	IS	77.1	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C3-PFHxS	IS	88.7	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C2-6:2 FTS	IS	85.4	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C5-PFNA	IS	73.1	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C8-PFOSA	IS	42.8	10 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C2-PFOA	IS	78.8	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C8-PFOS	IS	73.3	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1

Sample ID: Station 11	PFAS Isotope Dilution Method
------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Aqueous
Project: Mead & Hunt Airport PFAS Sampling / 25221127.00	Date Collected: 03-Aug-21 09:50
	Lab Sample: 2108031-02
	Date Received: 04-Aug-21 12:19
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	77.9	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C2-8:2 FTS	IS	89.5	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
d3-MeFOSAA	IS	85.0	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C2-PFUnA	IS	70.0	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
d5-EtFOSAA	IS	77.0	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C2-PFD _o A	IS	64.2	25 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1
13C2-PFTeDA	IS	56.0	20 - 150		B1H0030	23-Aug-21	0.232 L	14-Sep-21 18:01	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Outfall 21
PFAS Isotope Dilution Method

Client Data					Laboratory Data						
Name:	SCS Engineers		Matrix:	Aqueous	Lab Sample:	2108031-03	Column:	BEH C18			
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00				Date Collected:	03-Aug-21 10:00		Date Received:	04-Aug-21 12:19		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	352	0.749	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFPeA	2706-90-3	1160	1.03	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFBS	375-73-5	1020	0.807	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
4:2 FTS	757124-72-4	21.6	1.13	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFHxA	307-24-4	1730	1.18	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFPeS	2706-91-4	1590	0.948	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFHpA	375-85-9	431	0.927	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFHxS	355-46-4	7710	22.5	41.9	D	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:11	20
6:2 FTS	27619-97-2	3590	20.2	41.9	D	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:11	20
PFOA	335-67-1	978	1.14	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFHpS	375-92-8	668	2.59	2.62		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFNA	375-95-1	64.2	0.592	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFOSA	754-91-6	19.5	1.41	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFOS	1763-23-1	20600	22.3	41.9	D	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:11	20
PFDA	335-76-2	4.82	0.943	2.09		B1H0030	23-Aug-21	0.239 L	14-Sep-21 06:07	1
8:2 FTS	39108-34-4	319	2.35	2.36		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFNS	68259-12-1	8.22	1.48	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
MeFOSAA	2355-31-9	ND	0.990	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
EtFOSAA	2991-50-6	ND	2.66	2.75		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFUnA	2058-94-8	ND	1.41	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFDS	335-77-3	ND	2.83	2.88		B1H0030	23-Aug-21	0.239 L	14-Sep-21 06:07	1
PFDoA	307-55-1	ND	0.822	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFTTrDA	72629-94-8	ND	1.16	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
PFTeDA	376-06-7	ND	0.854	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	73.2	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C3-PFPeA	IS	74.5	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C3-PFBS	IS	64.2	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C2-4:2 FTS	IS	66.3	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C2-PFHxA	IS	67.4	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C4-PFHpA	IS	66.8	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C3-PFHxS	IS	209	25 - 150	D, H	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:11	20
13C2-6:2 FTS	IS	210	25 - 150	D, H	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:11	20
13C5-PFNA	IS	71.4	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C8-PFOSA	IS	29.7	10 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C2-PFOA	IS	71.2	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C8-PFOS	IS	180	25 - 150	D, H	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:11	20

Sample ID: Outfall 21
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Aqueous	Lab Sample:	2108031-03	Column:	BEH C18
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00	Date Collected:	03-Aug-21 10:00	Date Received:	04-Aug-21 12:19		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	87.1	25 - 150		B1H0030	23-Aug-21	0.239 L	14-Sep-21 06:07	1
13C2-8:2 FTS	IS	74.8	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
d3-MeFOSAA	IS	64.9	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C2-PFUnA	IS	69.3	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
d5-EtFOSAA	IS	71.5	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C2-PFD _o A	IS	58.8	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1
13C2-PFTeDA	IS	58.3	20 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:32	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Outfall 21 DUP
PFAS Isotope Dilution Method

Client Data					Laboratory Data						
Name:	SCS Engineers		Matrix:	Aqueous	Lab Sample:	2108031-04	Column:	BEH C18			
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00				Date Collected:	03-Aug-21 10:00		Date Received:	04-Aug-21 12:19		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	407	0.747	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFPeA	2706-90-3	1250	1.02	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFBS	375-73-5	949	0.804	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
4:2 FTS	757124-72-4	25.0	1.13	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFHxA	307-24-4	1580	1.18	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFPeS	2706-91-4	1630	0.946	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFHpA	375-85-9	430	0.925	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFHxS	355-46-4	8200	22.5	41.8	D	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:22	20
6:2 FTS	27619-97-2	2330	20.2	41.8	D	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:22	20
PFOA	335-67-1	803	1.14	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFHpS	375-92-8	692	2.58	2.61		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFNA	375-95-1	72.6	0.590	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFOSA	754-91-6	20.0	1.41	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFOS	1763-23-1	29000	22.3	41.8	D	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:22	20
PFDA	335-76-2	7.03	0.940	2.09		B1H0030	23-Aug-21	0.239 L	14-Sep-21 06:17	1
8:2 FTS	39108-34-4	402	2.34	2.35		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFNS	68259-12-1	10.1	1.47	2.09	Q	B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
MeFOSAA	2355-31-9	ND	0.987	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
EtFOSAA	2991-50-6	ND	2.65	2.74		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFUnA	2058-94-8	ND	1.41	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFDS	335-77-3	ND	2.83	2.87		B1H0030	23-Aug-21	0.239 L	14-Sep-21 06:17	1
PFDoA	307-55-1	ND	0.820	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFTTrDA	72629-94-8	ND	1.15	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
PFTeDA	376-06-7	ND	0.851	2.09		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	59.4	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C3-PFPeA	IS	68.7	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C3-PFBS	IS	65.3	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C2-4:2 FTS	IS	62.5	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C2-PFHxA	IS	66.7	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C4-PFHpA	IS	68.0	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C3-PFHxS	IS	159	25 - 150	D, H	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:22	20
13C2-6:2 FTS	IS	294	25 - 150	D, H	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:22	20
13C5-PFNA	IS	65.1	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C8-PFOSA	IS	29.4	10 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C2-PFOA	IS	76.6	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C8-PFOS	IS	80.6	25 - 150	D	B1H0030	23-Aug-21	0.239 L	14-Sep-21 18:22	20

Sample ID: Outfall 21 DUP	PFAS Isotope Dilution Method
----------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Lab Sample: 2108031-04
Project: Mead & Hunt Airport PFAS Sampling / 25221127.00	Date Received: 04-Aug-21 12:19
Matrix: Aqueous	Column: BEH C18
Date Collected: 03-Aug-21 10:00	

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	74.2	25 - 150		B1H0030	23-Aug-21	0.239 L	14-Sep-21 06:17	1
13C2-8:2 FTS	IS	66.6	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
d3-MeFOSAA	IS	67.1	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C2-PFUnA	IS	59.3	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
d5-EtFOSAA	IS	56.4	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C2-PFD _o A	IS	63.1	25 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1
13C2-PFTeDA	IS	56.1	20 - 150		B1H0030	23-Aug-21	0.239 L	17-Sep-21 07:53	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 10
PFAS Isotope Dilution Method

Client Data					Laboratory Data						
Name:	SCS Engineers		Matrix:	Aqueous	Lab Sample:	2108031-05	Column:	BEH C18			
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00				Date Collected:	03-Aug-21 10:10		Date Received:	04-Aug-21 12:19		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	84.9	0.736	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFPeA	2706-90-3	290	1.01	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFBS	375-73-5	201	0.793	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
4:2 FTS	757124-72-4	8.74	1.11	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFHxA	307-24-4	331	1.16	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFPeS	2706-91-4	219	0.932	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFHpA	375-85-9	99.3	0.911	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFHxS	355-46-4	1760	1.11	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
6:2 FTS	27619-97-2	718	0.994	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFOA	335-67-1	303	1.12	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFHpS	375-92-8	60.6	2.54	2.57		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFNA	375-95-1	11.0	0.582	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFOSA	754-91-6	ND	1.39	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFOS	1763-23-1	2100	11.0	20.6	D	B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:32	10
PFDA	335-76-2	ND	0.927	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 06:28	1
8:2 FTS	39108-34-4	18.7	2.31	2.32		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFNS	68259-12-1	ND	1.45	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
MeFOSAA	2355-31-9	ND	0.973	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
EtFOSAA	2991-50-6	ND	2.61	2.70		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFUnA	2058-94-8	ND	1.38	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFDS	335-77-3	ND	2.79	2.83		B1H0030	23-Aug-21	0.243 L	14-Sep-21 06:28	1
PFDoA	307-55-1	ND	0.808	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFTTrDA	72629-94-8	ND	1.14	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
PFTeDA	376-06-7	ND	0.839	2.06		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	89.0	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C3-PFPeA	IS	79.0	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C3-PFBS	IS	68.4	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C2-4:2 FTS	IS	75.1	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C2-PFHxA	IS	74.5	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C4-PFHpA	IS	73.3	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C3-PFHxS	IS	66.4	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C2-6:2 FTS	IS	77.7	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C5-PFNA	IS	80.4	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C8-PFOSA	IS	55.1	10 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C2-PFOA	IS	78.3	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C8-PFOS	IS	100	25 - 150	D	B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:32	10

Sample ID: Station 10	PFAS Isotope Dilution Method
------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Aqueous
Project: Mead & Hunt Airport PFAS Sampling / 25221127.00	Date Collected: 03-Aug-21 10:10
	Lab Sample: 2108031-05
	Date Received: 04-Aug-21 12:19
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	77.0	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 06:28	1
13C2-8:2 FTS	IS	78.8	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
d3-MeFOSAA	IS	81.8	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C2-PFUnA	IS	88.9	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
d5-EtFOSAA	IS	71.2	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C2-PFD _o A	IS	68.0	25 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1
13C2-PFTeDA	IS	54.1	20 - 150		B1H0030	23-Aug-21	0.243 L	17-Sep-21 08:14	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Field Blank
PFAS Isotope Dilution Method

Client Data					Laboratory Data				
Name:	SCS Engineers		Matrix:	Aqueous	Lab Sample:	2108031-06	Column:	BEH C18	
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00			Date Collected:	03-Aug-21 10:15	Date Received:	04-Aug-21 12:19		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.735	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFPeA	2706-90-3	ND	1.01	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFBS	375-73-5	ND	0.791	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
4:2 FTS	757124-72-4	ND	1.11	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFHxA	307-24-4	ND	1.16	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFPeS	2706-91-4	ND	0.930	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFHpA	375-85-9	ND	0.909	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFHxS	355-46-4	ND	1.10	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
6:2 FTS	27619-97-2	ND	0.992	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFOA	335-67-1	ND	1.12	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFHpS	375-92-8	ND	2.54	2.57		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFNA	375-95-1	ND	0.581	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFOSA	754-91-6	ND	1.39	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFOS	1763-23-1	ND	1.09	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFDA	335-76-2	ND	0.925	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
8:2 FTS	39108-34-4	ND	2.30	2.31		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFNS	68259-12-1	ND	1.45	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
MeFOSAA	2355-31-9	ND	0.971	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
EtFOSAA	2991-50-6	ND	2.61	2.70		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFUnA	2058-94-8	ND	1.38	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFDS	335-77-3	ND	2.78	2.83		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFDoA	307-55-1	ND	0.807	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFTTrDA	72629-94-8	ND	1.14	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
PFTeDA	376-06-7	ND	0.838	2.06		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	135	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C3-PFPeA	IS	104	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C3-PFBS	IS	87.5	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C2-4:2 FTS	IS	68.5	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C2-PFHxA	IS	79.1	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C4-PFHpA	IS	75.2	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C3-PFHxS	IS	94.1	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C2-6:2 FTS	IS	91.4	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C5-PFNA	IS	75.0	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C8-PFOSA	IS	47.2	10 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C2-PFOA	IS	85.0	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C8-PFOS	IS	83.9	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1

Sample ID: Field Blank	PFAS Isotope Dilution Method
-------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Lab Sample: 2108031-06
Project: Mead & Hunt Airport PFAS Sampling / 25221127.00	Date Received: 04-Aug-21 12:19
Matrix: Aqueous	Column: BEH C18
Date Collected: 03-Aug-21 10:15	

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	73.0	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C2-8:2 FTS	IS	96.5	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
d3-MeFOSAA	IS	72.6	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C2-PFUnA	IS	65.3	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
d5-EtFOSAA	IS	63.9	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C2-PFD _o A	IS	72.4	25 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1
13C2-PFTeDA	IS	64.8	20 - 150		B1H0030	23-Aug-21	0.243 L	14-Sep-21 18:43	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 4A
PFAS Isotope Dilution Method

Client Data					Laboratory Data						
Name:	SCS Engineers		Matrix:	Aqueous	Lab Sample:	2108031-07	Column:	BEH C18			
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00				Date Collected:	03-Aug-21 10:35		Date Received:	04-Aug-21 12:19		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	20.4	0.719	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFPeA	2706-90-3	44.6	0.986	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFBS	375-73-5	23.4	0.775	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
4:2 FTS	757124-72-4	ND	1.09	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFHxA	307-24-4	52.8	1.14	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFPeS	2706-91-4	25.1	0.910	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFHpA	375-85-9	18.0	0.890	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFHxS	355-46-4	239	1.08	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
6:2 FTS	27619-97-2	73.8	0.971	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFOA	335-67-1	56.7	1.10	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFHpS	375-92-8	5.33	2.48	2.51		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFNA	375-95-1	1.75	0.568	2.01	J	B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFOSA	754-91-6	ND	1.36	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFOS	1763-23-1	302	1.07	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFDA	335-76-2	ND	0.905	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
8:2 FTS	39108-34-4	ND	2.25	2.26		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFNS	68259-12-1	ND	1.42	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
MeFOSAA	2355-31-9	ND	0.951	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
EtFOSAA	2991-50-6	ND	2.55	2.64		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFUnA	2058-94-8	ND	1.35	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFDS	335-77-3	ND	2.72	2.77		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFDoA	307-55-1	ND	0.790	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFTTrDA	72629-94-8	ND	1.11	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
PFTeDA	376-06-7	ND	0.820	2.01		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.3	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C3-PFPeA	IS	85.1	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C3-PFBS	IS	85.8	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C2-4:2 FTS	IS	79.1	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C2-PFHxA	IS	76.9	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C4-PFHpA	IS	69.3	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C3-PFHxS	IS	79.0	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C2-6:2 FTS	IS	68.1	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C5-PFNA	IS	63.8	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C8-PFOSA	IS	43.6	10 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C2-PFOA	IS	75.7	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C8-PFOS	IS	71.1	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1

Sample ID: Station 4A	PFAS Isotope Dilution Method
------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Aqueous
Project: Mead & Hunt Airport PFAS Sampling / 25221127.00	Date Collected: 03-Aug-21 10:35
	Lab Sample: 2108031-07
	Date Received: 04-Aug-21 12:19
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	71.1	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C2-8:2 FTS	IS	84.3	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
d3-MeFOSAA	IS	77.9	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C2-PFUnA	IS	72.5	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
d5-EtFOSAA	IS	71.5	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C2-PFD _o A	IS	65.0	25 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1
13C2-PFTeDA	IS	50.2	20 - 150		B1H0030	23-Aug-21	0.249 L	14-Sep-21 18:53	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 7
PFAS Isotope Dilution Method

Client Data					Laboratory Data						
Name:	SCS Engineers		Matrix:	Aqueous	Lab Sample:	2108031-08	Column:	BEH C18			
Project:	Mead & Hunt Airport PFAS Sampling / 25221127.00				Date Collected:	03-Aug-21 11:00	Date Received:	04-Aug-21 12:19			

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	15.9	0.818	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFPeA	2706-90-3	30.9	1.12	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFBS	375-73-5	14.4	0.881	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
4:2 FTS	757124-72-4	ND	1.24	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFHxA	307-24-4	35.4	1.29	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFPeS	2706-91-4	14.4	1.04	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFHpA	375-85-9	13.7	1.01	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFHxS	355-46-4	160	1.23	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
6:2 FTS	27619-97-2	40.6	1.10	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFOA	335-67-1	52.4	1.25	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFHpS	375-92-8	3.55	2.83	2.86		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFNA	375-95-1	1.35	0.647	2.29	J, Q	B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFOSA	754-91-6	ND	1.55	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFOS	1763-23-1	193	1.22	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFDA	335-76-2	ND	1.03	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
8:2 FTS	39108-34-4	ND	2.56	2.58		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFNS	68259-12-1	ND	1.61	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
MeFOSAA	2355-31-9	ND	1.08	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
EtFOSAA	2991-50-6	ND	2.90	3.00		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFUnA	2058-94-8	ND	1.54	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFDS	335-77-3	ND	3.10	3.15		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFDoA	307-55-1	ND	0.898	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFTTrDA	72629-94-8	ND	1.26	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
PFTeDA	376-06-7	ND	0.933	2.29		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.6	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C3-PFPeA	IS	85.4	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C3-PFBS	IS	84.5	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C2-4:2 FTS	IS	76.8	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C2-PFHxA	IS	73.1	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C4-PFHpA	IS	65.7	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C3-PFHxS	IS	80.1	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C2-6:2 FTS	IS	73.5	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C5-PFNA	IS	69.4	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C8-PFOSA	IS	46.2	10 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C2-PFOA	IS	72.7	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C8-PFOS	IS	75.9	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1

Sample ID: Station 7	PFAS Isotope Dilution Method
-----------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Lab Sample: 2108031-08
Project: Mead & Hunt Airport PFAS Sampling / 25221127.00	Date Received: 04-Aug-21 12:19
Matrix: Aqueous	Column: BEH C18
Date Collected: 03-Aug-21 11:00	

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	66.4	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C2-8:2 FTS	IS	87.3	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
d3-MeFOSAA	IS	69.5	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C2-PFUnA	IS	62.1	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
d5-EtFOSAA	IS	68.2	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C2-PFD _o A	IS	63.1	25 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1
13C2-PFTeDA	IS	49.9	20 - 150		B1H0030	23-Aug-21	0.218 L	14-Sep-21 19:04	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 2108031 Temp: 2.0 °C
 Storage ID: R-13 W-2 Storage Secured: Yes No

Project ID: Mead & Hunt Airport PFAS Sampling PO#: 25221127.00 Sampler: Ryan Matzenk (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Specify: _____

Relinquished by (printed name and signature) Ryan Matzenk Date 8/3/2021 Time 13:00 Received by (printed name and signature) Justin Briseno Date 08/04/21 Time 1219

Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106

ATTN: _____

Method of Shipment: _____
 Tracking No.: _____

Sample ID	Date	Time	Location/ Sample Description	Container(s)		Matrix	Add Analysis(es) Requested				Comments	
				Quantity	Type		PFOA/PFOS	UCMR3 PFAS List 6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24		PFAS by Isotope Dilution
Outfall 32	8/3/21	925		2	P	AQ				X		
Station 11		950								X		
Outfall 21		1000								X		
Outfall 21 Dup		1000								X		
Station 10		1010								X		
Field Blank		1015								X		
Station 4A		1035								X		
Station 7		1100								X		

Special Instructions/Comment

SEND DOCUMENTATION AND RESULTS TO:

Name: Eric Oellers
 Company: SES Engineers
 Address: 2830 Dairy Dr.
 City: Madison State: WI Zip: 53718
 Phone: 608-444-3934
 Email: E.Oellers@SESengineers

Container Types: P = HDPE, PJ = HDPE Jar
 PY = Polypropylene, O = Other _____

Bottle Preservation Type: _____
 TZ = Trizma: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other _____

2108031

4.2.2 Analytical Parameters and Methods

Creek samples will be collected manually, as grab samples at each location. Each sample will be analyzed for appropriate PFAS compounds using Method 537 (Modified). Samples collected will be submitted to a certified, qualified Laboratory for analysis. Table 1 provides a summary of PFAS compounds to be analyzed and expected quantitation limits as provided by the laboratory.

Table 1. Summary of Stormwater Sampling PFAS Analytical Parameters.

Analyte Name	CAS#	Analyte	RL (ng/l)
Perfluorobutanoic acid	375-22-4	PFBA	6.9
Perfluoropentanoic acid	2706-90-3	PFPeA	3.4
Perfluorobutanesulfonic acid	375-73-5	PFBS	3.4
Perfluorohexanoic acid	307-24-4	PFHxA	3.4
Perfluoroheptanoic acid	375-85-9	PFHpA	3.4
Perfluorohexanesulfonic acid	355-46-4	PFHxS	3.4
6:2 Fluorotelomer sulfonic acid	27619-97-2	6:2-FTS	6.9
Perfluorooctanoic acid	335-67-1	PFOA	3.4
Perfluoroheptanesulfonic acid	375-92-8	PFHpS	3.4
Perfluorooctanesulfonic acid	1763-23-1	PFOS	3.4
Perfluorononanoic acid	375-95-1	PFNA	3.4
Perfluorodecanoic acid	335-76-2	PFDA	3.4
8:2 Fluorotelomer sulfonic acid	39108-34-4	8:2-FTS	6.9
Perfluorooctane sulfonamide	754-91-6	PFOSA	3.4
Perfluorodecanesulfonic acid	335-77-3	PFDS	3.4
Perfluoroundecanoic acid	2058-94-8	PFUnA/PFUdA	3.4
Perfluorododecanoic acid	307-55-1	PFDoA	3.4
Perfluorotridecanoic acid	72629-94-8	PFTTrDA	3.4
Perfluorotetradecanoic acid	376-06-7	PFTTeDA	3.4
N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	EtFOSAA	17.0
N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9	MeFOSAA	17.0
4:2 Fluorotelomer sulfonic acid	757124-72-4	4:2-FTS	6.9
Perfluoropentane sulfonic acid	2706-91-4	PFPeS	3.4
Perfluorononane sulfonic acid	68259-12-1	PFNS	3.4

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2108031 TAT 57d

Samples Arrival:	Date/Time <u>08/04/21 12:19</u>		Initials: <u>[Signature]</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>N/A</u>						
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Techni Ice	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None
Temp °C: <u>2.1</u> (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-3</u>			
Temp °C: <u>2.0</u> (corrected)							

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>—</u> Trk # <u>774437341955</u>	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Shipping Container	Vista	<input checked="" type="checkbox"/> Client	Retain
			<input checked="" type="checkbox"/> Return
			Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Logged In:	Date/Time <u>08/04/21 12:21</u>	Initials: <u>[Signature]</u>	Location: <u>R-13 WR-2</u>
	Shelf/Rack: <u>A-3 F-4</u>		
COC Anomaly/Sample Acceptance Form completed?		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2108031

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2108031-01	A Outfall 32		03-Aug-21 09:25	HDPE Bottle, 250 mL	Aqueous	
2108031-01	B Outfall 32		03-Aug-21 09:25	HDPE Bottle, 250 mL	Aqueous	
2108031-02	A Station 11		03-Aug-21 09:50	HDPE Bottle, 250 mL	Aqueous	
2108031-02	B Station 11		03-Aug-21 09:50	HDPE Bottle, 250 mL	Aqueous	
2108031-03	A Outfall 21		03-Aug-21 10:00	HDPE Bottle, 250 mL	Aqueous	
2108031-03	B Outfall 21		03-Aug-21 10:00	HDPE Bottle, 250 mL	Aqueous	
2108031-04	A Outfall 21 DUP		03-Aug-21 10:00	HDPE Bottle, 250 mL	Aqueous	
2108031-04	B Outfall 21 DUP		03-Aug-21 10:00	HDPE Bottle, 250 mL	Aqueous	
2108031-05	A Station 10		03-Aug-21 10:10	HDPE Bottle, 250 mL	Aqueous	
2108031-05	B Station 10		03-Aug-21 10:10	HDPE Bottle, 250 mL	Aqueous	
2108031-06	A Field Blank		03-Aug-21 10:15	HDPE Bottle, 250 mL	Aqueous	
2108031-06	B Field Blank		03-Aug-21 10:15	HDPE Bottle, 250 mL	Aqueous	
2108031-07	A Station 4A		03-Aug-21 10:35	HDPE Bottle, 250 mL	Aqueous	
2108031-07	B Station 4A		03-Aug-21 10:35	HDPE Bottle, 250 mL	Aqueous	
2108031-08	A Station 7		03-Aug-21 11:00	HDPE Bottle, 250 mL	Aqueous	
2108031-08	B Station 7		03-Aug-21 11:00	HDPE Bottle, 250 mL	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA	Comments:
Sample Container Intact?	✓			
Sample Custody Seals Intact?			✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None
ALL Other

Verified by/Date: Wro 8/05/21

August 11, 2021

Vista Work Order No. 2107131

Mr. Eric Oelkers
SCS Engineers
2830 Dairy Drive
Madison, WI 53718

Dear Mr. Oelkers,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on July 14, 2021 under your Project Name 'Mead & Hunt Airport Sampling / 25221127.00'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

for

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2107131

Case Narrative

Sample Condition on Receipt:

Eight water samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements.

Analytical Notes:

PFAS Isotope Dilution Method

The samples were extracted and analyzed for a selected list of PFAS using Vista's PFAS Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2107131-06	Field Blank	PFAS Isotope Dilution Method	13C3-PFBA	H	155

H = Recovery was outside laboratory acceptance criteria.

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	26
Certifications.....	27
Sample Receipt.....	30

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2107131-01	Outfall 32	13-Jul-21 09:45	14-Jul-21 09:34	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107131-02	Station 11	13-Jul-21 10:00	14-Jul-21 09:34	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107131-03	Outfall 21	13-Jul-21 10:15	14-Jul-21 09:34	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107131-04	Outfall 21 DUP	13-Jul-21 10:16	14-Jul-21 09:34	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107131-05	Station 10	13-Jul-21 10:30	14-Jul-21 09:34	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107131-06	Field Blank	13-Jul-21 10:35	14-Jul-21 09:34	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107131-07	Station 4A	13-Jul-21 10:55	14-Jul-21 09:34	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2107131-08	Station 7	13-Jul-21 11:10	14-Jul-21 09:34	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Aqueous	Lab Sample:	B1G0106-BLK1	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling / 25221127.00						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.715	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFPeA	2706-90-3	ND	0.980	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFBS	375-73-5	ND	0.770	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
4:2 FTS	757124-72-4	ND	1.08	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFHxA	307-24-4	ND	1.13	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFPeS	2706-91-4	ND	0.905	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFHpA	375-85-9	ND	0.885	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFHxS	355-46-4	ND	1.08	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
6:2 FTS	27619-97-2	ND	0.965	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFOA	335-67-1	ND	1.09	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFHpS	375-92-8	ND	2.47	2.50		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFNA	375-95-1	ND	0.565	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFOSA	754-91-6	ND	1.35	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFOS	1763-23-1	ND	1.07	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFDA	335-76-2	ND	0.900	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
8:2 FTS	39108-34-4	ND	2.24	2.25		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFNS	68259-12-1	ND	1.41	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
MeFOSAA	2355-31-9	ND	0.945	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
EtFOSAA	2991-50-6	ND	2.54	2.63		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFUnA	2058-94-8	ND	1.35	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFDS	335-77-3	ND	2.71	2.75		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFDoA	307-55-1	ND	0.785	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFTTrDA	72629-94-8	ND	1.11	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
PFTeDA	376-06-7	ND	0.815	2.00		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	146	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C3-PFPeA	IS	94.9	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C3-PFBS	IS	85.3	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C2-4:2 FTS	IS	80.4	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C2-PFHxA	IS	85.2	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C4-PFHpA	IS	87.2	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C3-PFHxS	IS	80.6	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C2-6:2 FTS	IS	73.9	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C5-PFNA	IS	88.3	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C8-PFOSA	IS	43.3	10 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C2-PFOA	IS	69.9	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C8-PFOS	IS	88.9	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1
13C2-PFDA	IS	75.6	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1

Sample ID: Method Blank					PFAS Isotope Dilution Method						
Client Data				Laboratory Data							
Name:	SCS Engineers		Matrix:	Aqueous		Lab Sample:	B1G0106-BLK1		Column:	BEH C18	
Project:	Mead & Hunt Airport Sampling / 25221127.00										
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C2-8:2 FTS	IS	87.6	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1		
d3-MeFOSAA	IS	72.6	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1		
13C2-PFUnA	IS	71.4	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1		
d5-EtFOSAA	IS	65.7	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1		
13C2-PFDoA	IS	73.0	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1		
13C2-PFTeDA	IS	71.1	20 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:47	1		

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data					Laboratory Data				
Name:	SCS Engineers	Matrix:	Aqueous	Lab Sample:	B1G0106-BS1	Column:	BEH C18		
Project:	Mead & Hunt Airport Sampling / 25221127.00								

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	39.6	40.0	99.1	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFPeA	2706-90-3	40.5	40.0	101	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFBS	375-73-5	40.3	40.0	101	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
4:2 FTS	757124-72-4	38.9	40.0	97.4	60 - 145		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFHxA	307-24-4	39.1	40.0	97.7	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFPeS	2706-91-4	34.3	40.0	85.8	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFHpA	375-85-9	40.6	40.0	102	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFHxS	355-46-4	39.8	40.0	99.4	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
6:2 FTS	27619-97-2	42.1	40.0	105	60 - 140		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFOA	335-67-1	44.9	40.0	112	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFHpS	375-92-8	38.0	40.0	94.9	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFNA	375-95-1	46.3	40.0	116	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFOSA	754-91-6	39.4	40.0	98.5	65 - 140		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFOS	1763-23-1	42.6	40.0	107	65 - 140		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFDA	335-76-2	47.0	40.0	118	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
8:2 FTS	39108-34-4	42.3	40.0	106	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFNS	68259-12-1	45.5	40.0	114	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
MeFOSAA	2355-31-9	36.9	40.0	92.2	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
EtFOSAA	2991-50-6	33.5	40.0	83.8	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFUnA	2058-94-8	42.0	40.0	105	65 - 140		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFDS	335-77-3	38.1	40.0	95.3	50 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFDaA	307-55-1	46.6	40.0	117	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFTTrDA	72629-94-8	41.2	40.0	103	60 - 140		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
PFTeDA	376-06-7	41.0	40.0	103	65 - 135		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	145	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C3-PFPeA	IS	92.0	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C3-PFBS	IS	86.4	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C2-4:2 FTS	IS	84.7	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C2-PFHxA	IS	88.3	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C4-PFHpA	IS	84.6	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C3-PFHxS	IS	83.4	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C2-6:2 FTS	IS	74.7	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C5-PFNA	IS	85.8	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C8-PFOSA	IS	49.2	10 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1

Sample ID: OPR
PFAS Isotope Dilution Method
Client Data

 Name: SCS Engineers
 Project: Mead & Hunt Airport Sampling / 25221127.00

Matrix: Aqueous

Laboratory Data

 Lab Sample: B1G0106-BS1
 Column: BEH C18

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFOA	IS	74.7	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C8-PFOS	IS	82.3	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C2-PFDA	IS	73.7	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C2-8:2 FTS	IS	72.7	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
d3-MeFOSAA	IS	75.8	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C2-PFUnA	IS	75.4	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
d5-EtFOSAA	IS	72.5	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C2-PFDoA	IS	72.7	25 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1
13C2-PFTeDA	IS	73.0	20 - 150		B1G0106	26-Jul-21	0.250 L	04-Aug-21 07:58	1

Sample ID: Outfall 32
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107131-01	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling / 25221127.00	Date Collected:	13-Jul-21 09:45	Date Received:	14-Jul-21 09:34		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	27.1	0.724	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFPeA	2706-90-3	72.8	0.992	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFBS	375-73-5	28.3	0.780	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
4:2 FTS	757124-72-4	ND	1.09	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFHxA	307-24-4	73.3	1.14	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFPeS	2706-91-4	28.8	0.916	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFHpA	375-85-9	35.9	0.896	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFHxS	355-46-4	281	1.09	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
6:2 FTS	27619-97-2	71.3	0.977	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFOA	335-67-1	91.6	1.10	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFHpS	375-92-8	9.74	2.50	2.53		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFNA	375-95-1	4.75	0.572	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFOSA	754-91-6	ND	1.37	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFOS	1763-23-1	447	1.08	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFDA	335-76-2	1.00	0.911	2.02	J	B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
8:2 FTS	39108-34-4	11.5	2.27	2.28		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFNS	68259-12-1	ND	1.43	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
MeFOSAA	2355-31-9	ND	0.957	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
EtFOSAA	2991-50-6	ND	2.57	2.66		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFUnA	2058-94-8	ND	1.36	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFDS	335-77-3	ND	2.74	2.78		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFDoA	307-55-1	ND	0.795	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFTTrDA	72629-94-8	ND	1.12	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
PFTeDA	376-06-7	ND	0.825	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	129	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C3-PFPeA	IS	90.2	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C3-PFBS	IS	82.2	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C2-4:2 FTS	IS	85.9	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C2-PFHxA	IS	90.1	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C4-PFHpA	IS	86.5	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C3-PFHxS	IS	83.5	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C2-6:2 FTS	IS	79.2	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C5-PFNA	IS	83.2	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C8-PFOSA	IS	52.7	10 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C2-PFOA	IS	83.3	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C8-PFOS	IS	88.1	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1

Sample ID: Outfall 32	PFAS Isotope Dilution Method
------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Water
Project: Mead & Hunt Airport Sampling / 25221127.00	Date Collected: 13-Jul-21 09:45
	Lab Sample: 2107131-01
	Date Received: 14-Jul-21 09:34
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	79.6	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C2-8:2 FTS	IS	83.9	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
d3-MeFOSAA	IS	93.0	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C2-PFUnA	IS	71.0	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
d5-EtFOSAA	IS	78.2	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C2-PFD _o A	IS	73.5	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1
13C2-PFTeDA	IS	76.6	20 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 09:22	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 11
PFAS Isotope Dilution Method

Client Data					Laboratory Data					
Name:	SCS Engineers		Matrix:	Water	Lab Sample:	2107131-02		Column:	BEH C18	
Project:	Mead & Hunt Airport Sampling / 25221127.00		Date Collected:	13-Jul-21 10:00	Date Received:	14-Jul-21 09:34				

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	8.93	0.731	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFPeA	2706-90-3	15.8	1.00	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFBS	375-73-5	5.84	0.787	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
4:2 FTS	757124-72-4	ND	1.10	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFHxA	307-24-4	16.9	1.15	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFPeS	2706-91-4	5.94	0.925	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFHpA	375-85-9	7.55	0.904	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFHxS	355-46-4	74.5	1.10	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
6:2 FTS	27619-97-2	6.52	0.986	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFOA	335-67-1	26.7	1.11	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFHpS	375-92-8	ND	2.52	2.55		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFNA	375-95-1	0.983	0.577	2.04	J, Q	B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFOSA	754-91-6	ND	1.38	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFOS	1763-23-1	51.1	1.09	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFDA	335-76-2	ND	0.920	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
8:2 FTS	39108-34-4	ND	2.29	2.30		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFNS	68259-12-1	ND	1.44	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
MeFOSAA	2355-31-9	ND	0.966	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
EtFOSAA	2991-50-6	ND	2.59	2.68		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFUnA	2058-94-8	ND	1.37	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFDS	335-77-3	ND	2.76	2.81		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFDoA	307-55-1	ND	0.802	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFTTrDA	72629-94-8	ND	1.13	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
PFTeDA	376-06-7	ND	0.833	2.04		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	126	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C3-PFPeA	IS	92.8	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C3-PFBS	IS	86.8	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C2-4:2 FTS	IS	80.1	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C2-PFHxA	IS	90.6	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C4-PFHpA	IS	81.3	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C3-PFHxS	IS	85.9	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C2-6:2 FTS	IS	76.2	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C5-PFNA	IS	90.6	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C8-PFOSA	IS	63.5	10 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C2-PFOA	IS	83.5	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1
13C8-PFOS	IS	85.6	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1

Sample ID: Station 11				PFAS Isotope Dilution Method							
Client Data				Laboratory Data							
Name:	SCS Engineers		Matrix:	Water		Lab Sample:	2107131-02		Column:	BEH C18	
Project:	Mead & Hunt Airport Sampling / 25221127.00		Date Collected:	13-Jul-21 10:00		Date Received:	14-Jul-21 09:34				
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C2-PFDA	IS	80.0	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1		
13C2-8:2 FTS	IS	58.5	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1		
d3-MeFOSAA	IS	88.0	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1		
13C2-PFUnA	IS	72.7	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1		
d5-EtFOSAA	IS	83.0	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1		
13C2-PFD _o A	IS	75.1	25 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1		
13C2-PFTeDA	IS	64.7	20 - 150		B1G0106	26-Jul-21	0.245 L	04-Aug-21 09:32	1		

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Outfall 21
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107131-03	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling / 25221127.00	Date Collected:	13-Jul-21 10:15	Date Received:	14-Jul-21 09:34		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	352	0.736	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFPeA	2706-90-3	1200	1.01	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFBS	375-73-5	1080	0.793	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
4:2 FTS	757124-72-4	25.8	1.11	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFHxA	307-24-4	1330	1.16	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFPeS	2706-91-4	1350	0.932	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFHpA	375-85-9	405	0.911	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFHxS	355-46-4	10800	16.6	30.9	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:22	15
6:2 FTS	27619-97-2	3750	14.9	30.9	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:22	15
PFOA	335-67-1	869	1.12	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFHpS	375-92-8	902	2.54	2.57		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFNA	375-95-1	77.0	0.582	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFOSA	754-91-6	18.9	1.39	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFOS	1763-23-1	17700	16.4	30.9	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:22	15
PFDA	335-76-2	7.50	0.926	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
8:2 FTS	39108-34-4	352	2.31	2.32		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFNS	68259-12-1	10.8	1.45	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
MeFOSAA	2355-31-9	ND	0.973	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
EtFOSAA	2991-50-6	ND	2.61	2.70		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFUnA	2058-94-8	ND	1.38	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFDS	335-77-3	ND	2.78	2.83		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFDoA	307-55-1	ND	0.808	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFTTrDA	72629-94-8	ND	1.14	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
PFTeDA	376-06-7	ND	0.839	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	127	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C3-PFPeA	IS	81.3	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C3-PFBS	IS	73.1	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C2-4:2 FTS	IS	76.9	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C2-PFHxA	IS	74.1	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C4-PFHpA	IS	70.0	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C3-PFHxS	IS	67.8	25 - 150	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:22	15
13C2-6:2 FTS	IS	88.7	25 - 150	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:22	15
13C5-PFNA	IS	74.1	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C8-PFOSA	IS	43.2	10 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C2-PFOA	IS	75.8	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C8-PFOS	IS	51.0	25 - 150	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:22	15

Sample ID: Outfall 21
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107131-03	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling / 25221127.00	Date Collected:	13-Jul-21 10:15	Date Received:	14-Jul-21 09:34		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	79.6	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C2-8:2 FTS	IS	74.8	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
d3-MeFOSAA	IS	85.9	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C2-PFUnA	IS	74.1	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
d5-EtFOSAA	IS	73.7	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C2-PFD _o A	IS	74.6	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1
13C2-PFTeDA	IS	74.6	20 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:43	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Outfall 21 DUP
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107131-04	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling / 25221127.00	Date Collected:	13-Jul-21 10:16	Date Received:	14-Jul-21 09:34		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	348	0.736	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFPeA	2706-90-3	1200	1.01	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFBS	375-73-5	975	0.793	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
4:2 FTS	757124-72-4	21.5	1.11	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFHxA	307-24-4	1410	1.16	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFPeS	2706-91-4	1190	0.932	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFHpA	375-85-9	356	0.911	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFHxS	355-46-4	8000	11.1	20.6	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:32	10
6:2 FTS	27619-97-2	4840	9.94	20.6	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:32	10
PFOA	335-67-1	842	1.12	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFHpS	375-92-8	797	2.54	2.57		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFNA	375-95-1	73.3	0.582	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFOSA	754-91-6	21.1	1.39	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFOS	1763-23-1	17300	11.0	20.6	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:32	10
PFDA	335-76-2	7.34	0.927	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
8:2 FTS	39108-34-4	329	2.31	2.32		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFNS	68259-12-1	12.6	1.45	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
MeFOSAA	2355-31-9	ND	0.973	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
EtFOSAA	2991-50-6	ND	2.61	2.70		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFUnA	2058-94-8	ND	1.38	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFDS	335-77-3	ND	2.79	2.83		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFDoA	307-55-1	ND	0.808	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFTTrDA	72629-94-8	ND	1.14	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
PFTeDA	376-06-7	ND	0.839	2.06		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	131	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C3-PFPeA	IS	80.6	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C3-PFBS	IS	78.5	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C2-4:2 FTS	IS	86.1	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C2-PFHxA	IS	72.1	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C4-PFHpA	IS	76.7	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C3-PFHxS	IS	97.5	25 - 150	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:32	10
13C2-6:2 FTS	IS	73.0	25 - 150	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:32	10
13C5-PFNA	IS	77.5	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C8-PFOSA	IS	40.2	10 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C2-PFOA	IS	70.5	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C8-PFOS	IS	54.0	25 - 150	D	B1G0106	26-Jul-21	0.243 L	05-Aug-21 11:32	10

Sample ID: Outfall 21 DUP
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107131-04	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling / 25221127.00	Date Collected:	13-Jul-21 10:16	Date Received:	14-Jul-21 09:34		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	79.6	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C2-8:2 FTS	IS	79.6	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
d3-MeFOSAA	IS	85.5	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C2-PFUnA	IS	79.2	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
d5-EtFOSAA	IS	75.7	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C2-PFD _o A	IS	75.4	25 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1
13C2-PFTeDA	IS	79.1	20 - 150		B1G0106	26-Jul-21	0.243 L	04-Aug-21 09:53	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 10
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107131-05	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling / 25221127.00	Date Collected:	13-Jul-21 10:30	Date Received:	14-Jul-21 09:34		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	88.0	0.712	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFPeA	2706-90-3	294	0.976	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFBS	375-73-5	200	0.767	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
4:2 FTS	757124-72-4	9.89	1.08	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFHxA	307-24-4	367	1.13	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFPeS	2706-91-4	215	0.901	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFHpA	375-85-9	97.9	0.881	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFHxS	355-46-4	2440	5.35	9.96	D	B1G0106	26-Jul-21	0.251 L	05-Aug-21 11:43	5
6:2 FTS	27619-97-2	742	0.961	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFOA	335-67-1	305	1.09	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFHpS	375-92-8	73.9	2.46	2.49		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFNA	375-95-1	14.7	0.563	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFOSA	754-91-6	2.06	1.34	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFOS	1763-23-1	2650	5.30	9.96	D	B1G0106	26-Jul-21	0.251 L	05-Aug-21 11:43	5
PFDA	335-76-2	0.966	0.896	1.99	J, Q	B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
8:2 FTS	39108-34-4	23.0	2.23	2.24		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFNS	68259-12-1	ND	1.40	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
MeFOSAA	2355-31-9	ND	0.941	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
EtFOSAA	2991-50-6	ND	2.52	2.61		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFUnA	2058-94-8	ND	1.34	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFDS	335-77-3	ND	2.69	2.74		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFDoA	307-55-1	ND	0.782	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFTTrDA	72629-94-8	ND	1.10	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
PFTeDA	376-06-7	ND	0.811	1.99		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	134	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C3-PFPeA	IS	94.7	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C3-PFBS	IS	85.7	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C2-4:2 FTS	IS	88.5	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C2-PFHxA	IS	85.0	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C4-PFHpA	IS	84.7	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C3-PFHxS	IS	72.0	25 - 150	D	B1G0106	26-Jul-21	0.251 L	05-Aug-21 11:43	5
13C2-6:2 FTS	IS	84.2	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C5-PFNA	IS	88.3	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C8-PFOSA	IS	51.9	10 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C2-PFOA	IS	82.6	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C8-PFOS	IS	79.0	25 - 150	D	B1G0106	26-Jul-21	0.251 L	05-Aug-21 11:43	5

Sample ID: Station 10	PFAS Isotope Dilution Method
------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Water
Project: Mead & Hunt Airport Sampling / 25221127.00	Date Collected: 13-Jul-21 10:30
	Lab Sample: 2107131-05
	Date Received: 14-Jul-21 09:34
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	84.3	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C2-8:2 FTS	IS	73.5	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
d3-MeFOSAA	IS	89.6	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C2-PFUnA	IS	75.1	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
d5-EtFOSAA	IS	90.1	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C2-PFD _o A	IS	72.4	25 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1
13C2-PFTeDA	IS	73.4	20 - 150		B1G0106	26-Jul-21	0.251 L	04-Aug-21 10:35	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Field Blank
PFAS Isotope Dilution Method

Client Data					Laboratory Data					
Name:	SCS Engineers		Matrix:	Water	Lab Sample:	2107131-06	Column:	BEH C18		
Project:	Mead & Hunt Airport Sampling / 25221127.00		Date Collected:	13-Jul-21 10:35	Date Received:	14-Jul-21 09:34				

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.718	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFPeA	2706-90-3	ND	0.985	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFBS	375-73-5	ND	0.774	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
4:2 FTS	757124-72-4	ND	1.09	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFHxA	307-24-4	ND	1.14	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFPeS	2706-91-4	ND	0.909	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFHpA	375-85-9	ND	0.889	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFHxS	355-46-4	ND	1.08	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
6:2 FTS	27619-97-2	ND	0.970	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFOA	335-67-1	ND	1.10	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFHpS	375-92-8	ND	2.48	2.51		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFNA	375-95-1	ND	0.568	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFOSA	754-91-6	ND	1.36	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFOS	1763-23-1	ND	1.07	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFDA	335-76-2	ND	0.904	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
8:2 FTS	39108-34-4	ND	2.25	2.26		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFNS	68259-12-1	ND	1.42	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
MeFOSAA	2355-31-9	ND	0.950	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
EtFOSAA	2991-50-6	ND	2.55	2.64		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFUnA	2058-94-8	ND	1.35	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFDS	335-77-3	ND	2.72	2.76		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFDoA	307-55-1	ND	0.789	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFTTrDA	72629-94-8	ND	1.11	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
PFTeDA	376-06-7	ND	0.819	2.01		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	155	25 - 150	H	B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C3-PFPeA	IS	93.5	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C3-PFBS	IS	87.8	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C2-4:2 FTS	IS	91.2	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C2-PFHxA	IS	84.8	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C4-PFHpA	IS	88.0	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C3-PFHxS	IS	91.1	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C2-6:2 FTS	IS	89.7	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C5-PFNA	IS	90.4	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C8-PFOSA	IS	49.7	10 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C2-PFOA	IS	82.1	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C8-PFOS	IS	92.0	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1

Sample ID: Field Blank	PFAS Isotope Dilution Method
-------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Water
Project: Mead & Hunt Airport Sampling / 25221127.00	Date Collected: 13-Jul-21 10:35
	Lab Sample: 2107131-06
	Date Received: 14-Jul-21 09:34
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	79.5	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C2-8:2 FTS	IS	80.6	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
d3-MeFOSAA	IS	82.0	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C2-PFUnA	IS	80.2	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
d5-EtFOSAA	IS	71.2	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C2-PFD _o A	IS	76.7	25 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1
13C2-PFTeDA	IS	75.4	20 - 150		B1G0106	26-Jul-21	0.249 L	04-Aug-21 10:46	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 4A
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107131-07	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling / 25221127.00	Date Collected:	13-Jul-21 10:55	Date Received:	14-Jul-21 09:34		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	22.1	0.702	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFPeA	2706-90-3	65.8	0.962	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFBS	375-73-5	38.9	0.756	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
4:2 FTS	757124-72-4	1.68	1.06	1.96	J	B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFHxA	307-24-4	86.1	1.11	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFPeS	2706-91-4	40.4	0.889	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFHpA	375-85-9	23.6	0.869	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFHxS	355-46-4	408	1.06	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
6:2 FTS	27619-97-2	140	0.947	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFOA	335-67-1	81.6	1.07	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFHpS	375-92-8	10.8	2.43	2.45		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFNA	375-95-1	3.42	0.555	1.96	Q	B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFOSA	754-91-6	ND	1.33	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFOS	1763-23-1	581	1.05	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFDA	335-76-2	ND	0.884	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
8:2 FTS	39108-34-4	4.16	2.20	2.21		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFNS	68259-12-1	ND	1.38	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
MeFOSAA	2355-31-9	ND	0.928	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
EtFOSAA	2991-50-6	ND	2.49	2.58		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFUnA	2058-94-8	ND	1.32	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFDS	335-77-3	ND	2.66	2.70		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFDoA	307-55-1	ND	0.771	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFTTrDA	72629-94-8	ND	1.08	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
PFTeDA	376-06-7	ND	0.800	1.96		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	121	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C3-PFPeA	IS	95.1	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C3-PFBS	IS	87.3	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C2-4:2 FTS	IS	80.6	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C2-PFHxA	IS	83.4	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C4-PFHpA	IS	81.6	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C3-PFHxS	IS	88.2	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C2-6:2 FTS	IS	84.6	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C5-PFNA	IS	85.2	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C8-PFOSA	IS	53.0	10 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C2-PFOA	IS	75.8	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C8-PFOS	IS	78.8	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1

Sample ID: Station 4A	PFAS Isotope Dilution Method
------------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Lab Sample: 2107131-07
Project: Mead & Hunt Airport Sampling / 25221127.00	Date Received: 14-Jul-21 09:34
Matrix: Water	Column: BEH C18
Date Collected: 13-Jul-21 10:55	

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	75.9	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C2-8:2 FTS	IS	74.9	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
d3-MeFOSAA	IS	79.9	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C2-PFUnA	IS	73.5	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
d5-EtFOSAA	IS	74.9	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C2-PFD _o A	IS	66.9	25 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1
13C2-PFTeDA	IS	65.0	20 - 150		B1G0106	26-Jul-21	0.255 L	04-Aug-21 10:56	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Station 7
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	SCS Engineers	Matrix:	Water	Lab Sample:	2107131-08	Column:	BEH C18
Project:	Mead & Hunt Airport Sampling / 25221127.00	Date Collected:	13-Jul-21 11:10	Date Received:	14-Jul-21 09:34		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	15.5	0.724	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFPeA	2706-90-3	40.5	0.992	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFBS	375-73-5	24.6	0.779	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
4:2 FTS	757124-72-4	ND	1.09	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFHxA	307-24-4	48.3	1.14	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFPeS	2706-91-4	20.5	0.916	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFHpA	375-85-9	16.3	0.896	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFHxS	355-46-4	211	1.09	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
6:2 FTS	27619-97-2	55.6	0.976	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFOA	335-67-1	47.2	1.10	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFHpS	375-92-8	5.63	2.50	2.53		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFNA	375-95-1	1.87	0.572	2.02	J, Q	B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFOSA	754-91-6	ND	1.37	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFOS	1763-23-1	256	1.08	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFDA	335-76-2	ND	0.911	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
8:2 FTS	39108-34-4	ND	2.27	2.28		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFNS	68259-12-1	ND	1.43	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
MeFOSAA	2355-31-9	ND	0.956	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
EtFOSAA	2991-50-6	ND	2.57	2.66		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFUnA	2058-94-8	ND	1.36	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFDS	335-77-3	ND	2.74	2.78		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFDoA	307-55-1	ND	0.794	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFTTrDA	72629-94-8	ND	1.12	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
PFTeDA	376-06-7	ND	0.825	2.02		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	122	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C3-PFPeA	IS	95.0	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C3-PFBS	IS	85.9	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C2-4:2 FTS	IS	83.5	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C2-PFHxA	IS	89.1	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C4-PFHpA	IS	87.0	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C3-PFHxS	IS	94.4	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C2-6:2 FTS	IS	81.3	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C5-PFNA	IS	92.3	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C8-PFOSA	IS	62.2	10 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C2-PFOA	IS	81.9	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C8-PFOS	IS	86.4	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1

Sample ID: Station 7	PFAS Isotope Dilution Method
-----------------------------	-------------------------------------

Client Data	Laboratory Data
Name: SCS Engineers	Matrix: Water
Project: Mead & Hunt Airport Sampling / 25221127.00	Date Collected: 13-Jul-21 11:10
	Lab Sample: 2107131-08
	Date Received: 14-Jul-21 09:34
	Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDA	IS	75.7	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C2-8:2 FTS	IS	81.8	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
d3-MeFOSAA	IS	69.4	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C2-PFUnA	IS	74.1	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
d5-EtFOSAA	IS	74.5	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C2-PFD _o A	IS	70.2	25 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1
13C2-PFTeDA	IS	58.7	20 - 150		B1G0106	26-Jul-21	0.247 L	04-Aug-21 11:07	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 2107131 Temp: 1.2 °C
 Storage ID: R-13 WI-2 Storage Secured: Yes No

Project ID: Mead & Hunt Airport Sampling PO#: 25221127.00 Sampler: Ryan Matzuk (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply) 14 days 7 days Specify: _____

Relinquished by (printed name and signature) Ryan Matzuk Date 7/13/21 Time 1330 Received by (printed name and signature) Justin Briseno Date 07/14/21 Time 0924

Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 ATTN: _____
 Method of Shipment: _____
 Tracking No.: _____

Quantity	Type	Matrix	PFOA/PFOS	UCMR3 PFAS Lists	537.1 List - 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analyte list	PFOA/PFOS	UCMR3 PFAS Lists	537.1 List of 14	537.1 List of 18	EPA Method 537 (DW only)	Comments
----------	------	--------	-----------	------------------	------------------------------------	----------------------	--------------------------------------	-----------	------------------	------------------	------------------	--------------------------	----------

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFOA/PFOS	UCMR3 PFAS Lists	537.1 List - 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analyte list	PFOA/PFOS	UCMR3 PFAS Lists	537.1 List of 14	537.1 List of 18	EPA Method 537 (DW only)	Comments	
Outfall 32	7/13/21	945		2	P	W				X								
Station 11		1000								X								
Outfall 21		1015								X								
Outfall 21 DUP		1016								X								
Station 10		1030								X								
Field Blank		1035								X								
Station 4A		1055								X								
Station 7		1110								X								

Special Instructions/Comment _____

Name: Eric Oelkers
 Company: SCS Engineers
 Address: 2830 Dairy Dr
 City: Madison State: WI Zip: 53718
 Phone: 608-444-3934
 Email: EOelkers@scsengineers

SEND DOCUMENTATION AND RESULTS TO:

Container Types: P = HDPE, PJ = HDPE Jar Bottle Preservation Type: _____ Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, PY = Polypropylene, O = Other TZ = Trizma: _____ SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other

4.2.2 Analytical Parameters and Methods

Creek samples will be collected manually, as grab samples at each location. Each sample will be analyzed for appropriate PFAS compounds using Method 537 (Modified). Samples collected will be submitted to a certified, qualified Laboratory for analysis. Table 1 provides a summary of PFAS compounds to be analyzed and expected quantitation limits as provided by the laboratory.

Table 1. Summary of Stormwater Sampling PFAS Analytical Parameters.

Analyte Name	CAS#	Analyte	RL (ng/l)
Perfluorobutanoic acid	375-22-4	PFBA	6.9
Perfluoropentanoic acid	2706-90-3	PFPeA	3.4
Perfluorobutanesulfonic acid	375-73-5	PFBS	3.4
Perfluorohexanoic acid	307-24-4	PFHxA	3.4
Perfluoroheptanoic acid	375-85-9	PFHpA	3.4
Perfluorohexanesulfonic acid	355-46-4	PFHxS	3.4
6:2 Fluorotelomer sulfonic acid	27619-97-2	6:2-FTS	6.9
Perfluorooctanoic acid	335-67-1	PFOA	3.4
Perfluoroheptanesulfonic acid	375-92-8	PFHpS	3.4
Perfluorooctanesulfonic acid	1763-23-1	PFOS	3.4
Perfluorononanoic acid	375-95-1	PFNA	3.4
Perfluorodecanoic acid	335-76-2	PFDA	3.4
8:2 Fluorotelomer sulfonic acid	39108-34-4	8:2-FTS	6.9
Perfluorooctane sulfonamide	754-91-6	PFOSA	3.4
Perfluorodecanesulfonic acid	335-77-3	PFDS	3.4
Perfluoroundecanoic acid	2058-94-8	PFUnA/PFUdA	3.4
Perfluorododecanoic acid	307-55-1	PFDoA	3.4
Perfluorotridecanoic acid	72629-94-8	PFTTrDA	3.4
Perfluorotetradecanoic acid	376-06-7	PFTeDA	3.4
N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	EtFOSAA	17.0
N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9	MeFOSAA	17.0
4:2 Fluorotelomer sulfonic acid	757124-72-4	4:2-FTS	6.9
Perfluoropentane sulfonic acid	2706-91-4	PFPeS	3.4
Perfluorononane sulfonic acid	68259-12-1	PFNS	3.4

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2107131 TAT STD

Samples Arrival:	Date/Time <u>07/14/21 0934</u>		Initials: <u>[Signature]</u>		Location: <u>WR-2</u>			
Delivered By:		<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac	<input type="radio"/> GLS	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:		<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice		<input type="radio"/> Techni Ice	<input type="radio"/> Dry Ice	<input type="radio"/> None	
Temp °C:	<u>1.3</u> (uncorrected)	Probe used: Y / <input checked="" type="radio"/> N			Thermometer ID: <u>IR-3</u>			
Temp °C:	<u>1.2</u> (corrected)							

	YES	NO	NA		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Airbill <u>-</u> Trk # <u>742 46899830</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Container	<input checked="" type="radio"/> Vista	<input type="radio"/> Client	<input checked="" type="radio"/> Retain	<input type="radio"/> Return	<input type="radio"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Logged In:	Date/Time <u>07/15/21 13:02</u>	Initials: <u>[Signature]</u>	Location: <u>R-13 WR-2</u>
			Shelf/Rack: <u>A-1 E-4</u>
COC Anomaly/Sample Acceptance Form completed?			<input type="checkbox"/> - <input type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2107131

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2107131-01	A Outfall 32		13-Jul-21 09:45	HDPE Bottle, 250 mL	Aqueous	
2107131-01	B Outfall 32		13-Jul-21 09:45	HDPE Bottle, 250 mL	Aqueous	
2107131-02	A Station 11		13-Jul-21 10:00	HDPE Bottle, 250 mL	Aqueous	
2107131-02	B Station 11		13-Jul-21 10:00	HDPE Bottle, 250 mL	Aqueous	
2107131-03	A Outfall 21		13-Jul-21 10:15	HDPE Bottle, 250 mL	Aqueous	
2107131-03	B Outfall 21		13-Jul-21 10:15	HDPE Bottle, 250 mL	Aqueous	
2107131-04	A Outfall 21 DUP		13-Jul-21 10:16	HDPE Bottle, 250 mL	Aqueous	
2107131-04	B Outfall 21 DUP		13-Jul-21 10:16	HDPE Bottle, 250 mL	Aqueous	
2107131-05	A Station 10		13-Jul-21 10:30	HDPE Bottle, 250 mL	Aqueous	
2107131-05	B Station 10		13-Jul-21 10:30	HDPE Bottle, 250 mL	Aqueous	
2107131-06	A Field Blank		13-Jul-21 10:35	HDPE Bottle, 250 mL	Aqueous	
2107131-06	B Field Blank		13-Jul-21 10:35	HDPE Bottle, 250 mL	Aqueous	
2107131-07	A Station 4A		13-Jul-21 10:55	HDPE Bottle, 250 mL	Aqueous	
2107131-07	B Station 4A		13-Jul-21 10:55	HDPE Bottle, 250 mL	Aqueous	
2107131-08	A Station 7		13-Jul-21 11:10	HDPE Bottle, 250 mL	Aqueous	
2107131-08	B Station 7		13-Jul-21 11:10	HDPE Bottle, 250 mL	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?		✓	✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		

Comments:

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

All

Verified by/Date: [Signature] 07/15/21

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Eric Oelkers
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Generated 7/6/2023 11:47:32 AM

JOB DESCRIPTION

Dane County Airport 25221127.00

JOB NUMBER

500-234885-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
7/6/2023 11:47:32 AM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	8
Sample Summary	9
Client Sample Results	10
Definitions	26
QC Association	27
QC Sample Results	28
Chronicle	35
Certification Summary	37
Chain of Custody	38
Receipt Checklists	39
Field Data Sheets	40
Isotope Dilution Summary	41

Case Narrative

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Job ID: 500-234885-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-234885-1

Receipt

The samples were received on 6/7/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

LCMS

Method 537 (modified): Results for samples Outfall 21 (500-234885-2) and Outfall 21 DUP (500-234885-3) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Results for sample Outfall 32 (500-234885-1) and Station 10 (500-234885-5) were reported from the analysis of a diluted extract due to high concentration of the matrix in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

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

Organic Prep

Method 3535: The following samples in preparation batch 320-686820 were observed to have floating particulates present in the sample bottle. Outfall 32 (500-234885-1), Outfall 21 (500-234885-2), Outfall 21 DUP (500-234885-3), Station 11 (500-234885-4), Station 10 (500-234885-5), Station 4A (500-234885-6) and Station 7 (500-234885-7)

Method: 3535_PFC_28D

Matrix: Aqueous

Method 3535: The following sample was dark brown in color prior to extraction: Station 10 (500-234885-5).
preparation batch 320-686820

Method: 3535_PFC_28D

Matrix: Aqueous

Method 3535: The following samples were light brown in color prior to extraction: Station 4A (500-234885-6) and Station 7 (500-234885-7).
preparation batch 320-686820

Method: 3535_PFC_28D

Matrix: Aqueous

Method 3535: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: Station 11 (500-234885-4), Station 10 (500-234885-5), Station 4A (500-234885-6), Station 7 (500-234885-7), (500-234885-A-7 MS) and (500-234885-A-7 MSD). A 5x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.

preparation batch 320-686820

Method: 3535_PFC_28D

Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following sample contain non-settable particulates which clogged the solid phase extraction column: Station 10 (500-234885-5).

preparation batch 320-686820

Method: 3535_PFC_28D

Matrix: Aqueous

Method 3535: No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-234885-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	24		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	48		1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	55		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	25		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	62		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.9		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.4	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.82	J	1.9	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.84	J	1.9	0.68	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	22		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	30		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	200		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	8.6		1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorononanesulfonic acid (PFNS)	0.84	J	1.9	0.34	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.62	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.4	J	1.9	0.91	ng/L	1		537 (modified)	Total/NA
NMeFOSA	0.70	J	1.9	0.40	ng/L	1		537 (modified)	Total/NA
4:2 FTS	1.5	J	1.9	0.22	ng/L	1		537 (modified)	Total/NA
6:2 FTS	50		4.6	2.3	ng/L	1		537 (modified)	Total/NA
8:2 FTS	11		1.9	0.43	ng/L	1		537 (modified)	Total/NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71	J	1.9	0.37	ng/L	1		537 (modified)	Total/NA
9Cl-PF3ONS	0.64	J	1.9	0.22	ng/L	1		537 (modified)	Total/NA
11Cl-PF3OUdS	0.63	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	350		9.3	2.5	ng/L	5		537 (modified)	Total/NA

Client Sample ID: Outfall 21

Lab Sample ID: 500-234885-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	320	J	450	220	ng/L	100		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1000		180	44	ng/L	100		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1300		180	52	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	360		180	23	ng/L	100		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	750		180	77	ng/L	100		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	52	J	180	24	ng/L	100		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	680		180	18	ng/L	100		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1200		180	27	ng/L	100		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8200		180	52	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	300		180	17	ng/L	100		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16000		180	49	ng/L	100		537 (modified)	Total/NA
6:2 FTS	2800		450	230	ng/L	100		537 (modified)	Total/NA
8:2 FTS	280		180	42	ng/L	100		537 (modified)	Total/NA

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-234885-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	300	J	450	220	ng/L	100		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1200		180	44	ng/L	100		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Outfall 21 DUP (Continued)

Lab Sample ID: 500-234885-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	1300		180	52	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	410		180	23	ng/L	100		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	860		180	77	ng/L	100		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	54	J	180	24	ng/L	100		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	750		180	18	ng/L	100		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1200		180	27	ng/L	100		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	7200		180	52	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	270		180	17	ng/L	100		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13000		180	49	ng/L	100		537 (modified)	Total/NA
6:2 FTS	2200		450	230	ng/L	100		537 (modified)	Total/NA
8:2 FTS	390		180	42	ng/L	100		537 (modified)	Total/NA

Client Sample ID: Station 11

Lab Sample ID: 500-234885-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	17		10	2.5	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	18		10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.4	J	10	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	22		10	4.3	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.4	J	10	1.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	9.6	J	10	1.5	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	83		10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	1.6	J	10	0.95	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	68		10	2.7	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Station 10

Lab Sample ID: 500-234885-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	110		25	12	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	330		10	2.5	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	430		10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	140		10	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	410		10	4.3	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	23		10	1.4	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	3.6	J	10	1.6	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	200		10	1.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	310		10	1.5	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	91		10	0.95	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	7.1	J	10	4.9	ng/L	1		537 (modified)	Total/NA
4:2 FTS	12		10	1.2	ng/L	1		537 (modified)	Total/NA
6:2 FTS	890		25	13	ng/L	1		537 (modified)	Total/NA
8:2 FTS	120		10	2.3	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	2300		100	29	ng/L	10		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	4900		100	27	ng/L	10		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 4A

Lab Sample ID: 500-234885-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
6:2 FTS	17	J	25	13	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Station 7

Lab Sample ID: 500-234885-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	18	J	25	12	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	43		10	2.5	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	52		10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	15		10	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	56		10	4.3	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.1	J	10	1.4	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	22		10	1.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	33		10	1.5	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	240		10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	7.5	J	10	0.95	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	400		10	2.7	ng/L	1		537 (modified)	Total/NA
4:2 FTS	1.2	J	10	1.2	ng/L	1		537 (modified)	Total/NA
6:2 FTS	61		25	13	ng/L	1		537 (modified)	Total/NA
8:2 FTS	3.2	J	10	2.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 500-234885-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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

Sample Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-234885-1	Outfall 32	Water	06/06/23 07:50	06/07/23 09:20
500-234885-2	Outfall 21	Water	06/06/23 08:10	06/07/23 09:20
500-234885-3	Outfall 21 DUP	Water	06/06/23 08:15	06/07/23 09:20
500-234885-4	Station 11	Water	06/06/23 09:35	06/07/23 09:20
500-234885-5	Station 10	Water	06/06/23 09:20	06/07/23 09:20
500-234885-6	Station 4A	Water	06/06/23 11:00	06/07/23 09:20
500-234885-7	Station 7	Water	06/06/23 10:20	06/07/23 09:20
500-234885-8	Field Blank	Water	06/06/23 09:30	06/07/23 09:20

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

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-234885-1

Date Collected: 06/06/23 07:50

Matrix: Water

Date Received: 06/07/23 09:20

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	24		4.6	2.2	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluoropentanoic acid (PFPeA)	48		1.9	0.45	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorohexanoic acid (PFHxA)	55		1.9	0.54	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluoroheptanoic acid (PFHpA)	25		1.9	0.23	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorooctanoic acid (PFOA)	62		1.9	0.79	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorononanoic acid (PFNA)	3.9		1.9	0.25	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorodecanoic acid (PFDA)	1.4 J		1.9	0.29	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorododecanoic acid (PFDoA)	0.82 J		1.9	0.51	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorotetradecanoic acid (PFTeA)	0.84 J		1.9	0.68	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorobutanesulfonic acid (PFBS)	22		1.9	0.19	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluoropentanesulfonic acid (PFPeS)	30		1.9	0.28	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorohexanesulfonic acid (PFHxS)	200		1.9	0.53	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluoroheptanesulfonic acid (PFHpS)	8.6		1.9	0.18	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorononanesulfonic acid (PFNS)	0.84 J		1.9	0.34	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorodecanesulfonic acid (PFDS)	0.62 J		1.9	0.30	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		06/29/23 04:46	07/04/23 14:53	1
Perfluorooctanesulfonamide (FOSA)	1.4 J		1.9	0.91	ng/L		06/29/23 04:46	07/04/23 14:53	1
NEtFOSA	<0.81		1.9	0.81	ng/L		06/29/23 04:46	07/04/23 14:53	1
NMeFOSA	0.70 J		1.9	0.40	ng/L		06/29/23 04:46	07/04/23 14:53	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		06/29/23 04:46	07/04/23 14:53	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		06/29/23 04:46	07/04/23 14:53	1
NMeFOSE	<1.3		3.7	1.3	ng/L		06/29/23 04:46	07/04/23 14:53	1
NEtFOSE	<0.79		1.9	0.79	ng/L		06/29/23 04:46	07/04/23 14:53	1
4:2 FTS	1.5 J		1.9	0.22	ng/L		06/29/23 04:46	07/04/23 14:53	1
6:2 FTS	50		4.6	2.3	ng/L		06/29/23 04:46	07/04/23 14:53	1
8:2 FTS	11		1.9	0.43	ng/L		06/29/23 04:46	07/04/23 14:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.71 J		1.9	0.37	ng/L		06/29/23 04:46	07/04/23 14:53	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		06/29/23 04:46	07/04/23 14:53	1
9CI-PF3ONS	0.64 J		1.9	0.22	ng/L		06/29/23 04:46	07/04/23 14:53	1
11CI-PF3OUdS	0.63 J		1.9	0.30	ng/L		06/29/23 04:46	07/04/23 14:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	84		25 - 150				06/29/23 04:46	07/04/23 14:53	1
13C5 PFPeA	103		25 - 150				06/29/23 04:46	07/04/23 14:53	1
13C2 PFHxA	100		25 - 150				06/29/23 04:46	07/04/23 14:53	1
13C4 PFHpA	99		25 - 150				06/29/23 04:46	07/04/23 14:53	1
13C4 PFOA	95		25 - 150				06/29/23 04:46	07/04/23 14:53	1
13C5 PFNA	91		25 - 150				06/29/23 04:46	07/04/23 14:53	1
13C2 PFDA	91		25 - 150				06/29/23 04:46	07/04/23 14:53	1
13C2 PFUnA	82		25 - 150				06/29/23 04:46	07/04/23 14:53	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-234885-1

Date Collected: 06/06/23 07:50

Matrix: Water

Date Received: 06/07/23 09:20

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDoA	78		25 - 150	06/29/23 04:46	07/04/23 14:53	1
13C2 PFTeDA	67		25 - 150	06/29/23 04:46	07/04/23 14:53	1
13C3 PFBS	103		25 - 150	06/29/23 04:46	07/04/23 14:53	1
18O2 PFHxS	98		25 - 150	06/29/23 04:46	07/04/23 14:53	1
13C4 PFOS	92		25 - 150	06/29/23 04:46	07/04/23 14:53	1
13C8 FOSA	111		10 - 150	06/29/23 04:46	07/04/23 14:53	1
d3-NMeFOSAA	101		25 - 150	06/29/23 04:46	07/04/23 14:53	1
d5-NEtFOSAA	110		25 - 150	06/29/23 04:46	07/04/23 14:53	1
d-N-MeFOSA-M	76		10 - 150	06/29/23 04:46	07/04/23 14:53	1
d-N-EtFOSA-M	76		10 - 150	06/29/23 04:46	07/04/23 14:53	1
d7-N-MeFOSE-M	69		10 - 150	06/29/23 04:46	07/04/23 14:53	1
d9-N-EtFOSE-M	69		10 - 150	06/29/23 04:46	07/04/23 14:53	1
M2-4:2 FTS	98		25 - 150	06/29/23 04:46	07/04/23 14:53	1
M2-6:2 FTS	82		25 - 150	06/29/23 04:46	07/04/23 14:53	1
M2-8:2 FTS	82		25 - 150	06/29/23 04:46	07/04/23 14:53	1
13C3 HFPO-DA	93		25 - 150	06/29/23 04:46	07/04/23 14:53	1
13C2 10:2 FTS	78		25 - 150	06/29/23 04:46	07/04/23 14:53	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanesulfonic acid (PFOS)	350		9.3	2.5	ng/L		06/29/23 04:46	07/04/23 13:35	5
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>			
13C4 PFOS	96		25 - 150	06/29/23 04:46	07/04/23 13:35	5			

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Outfall 21

Lab Sample ID: 500-234885-2

Date Collected: 06/06/23 08:10

Matrix: Water

Date Received: 06/07/23 09:20

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	320	J	450	220	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluoropentanoic acid (PFPeA)	1000		180	44	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorohexanoic acid (PFHxA)	1300		180	52	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluoroheptanoic acid (PFHpA)	360		180	23	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorooctanoic acid (PFOA)	750		180	77	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorononanoic acid (PFNA)	52	J	180	24	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorodecanoic acid (PFDA)	<28		180	28	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluoroundecanoic acid (PFUnA)	<100		180	100	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorododecanoic acid (PFDoA)	<50		180	50	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorotridecanoic acid (PFTrDA)	<120		180	120	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorotetradecanoic acid (PFTeA)	<66		180	66	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorobutanesulfonic acid (PFBS)	680		180	18	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluoropentanesulfonic acid (PFPeS)	1200		180	27	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorohexanesulfonic acid (PFHxS)	8200		180	52	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluoroheptanesulfonic acid (PFHpS)	300		180	17	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorooctanesulfonic acid (PFOS)	16000		180	49	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorononanesulfonic acid (PFNS)	<33		180	33	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorodecanesulfonic acid (PFDS)	<29		180	29	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorododecanesulfonic acid (PFDoS)	<88		180	88	ng/L		06/29/23 04:46	07/01/23 07:48	100
Perfluorooctanesulfonamide (FOSA)	<89		180	89	ng/L		06/29/23 04:46	07/01/23 07:48	100
NEtFOSA	<79		180	79	ng/L		06/29/23 04:46	07/01/23 07:48	100
NMeFOSA	<39		180	39	ng/L		06/29/23 04:46	07/01/23 07:48	100
NMeFOSAA	<110		450	110	ng/L		06/29/23 04:46	07/01/23 07:48	100
NEtFOSAA	<120		450	120	ng/L		06/29/23 04:46	07/01/23 07:48	100
NMeFOSE	<130		360	130	ng/L		06/29/23 04:46	07/01/23 07:48	100
NEtFOSE	<77		180	77	ng/L		06/29/23 04:46	07/01/23 07:48	100
4:2 FTS	<22		180	22	ng/L		06/29/23 04:46	07/01/23 07:48	100
6:2 FTS	2800		450	230	ng/L		06/29/23 04:46	07/01/23 07:48	100
8:2 FTS	280		180	42	ng/L		06/29/23 04:46	07/01/23 07:48	100
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<36		180	36	ng/L		06/29/23 04:46	07/01/23 07:48	100
HFPO-DA (GenX)	<140		360	140	ng/L		06/29/23 04:46	07/01/23 07:48	100
9CI-PF3ONS	<22		180	22	ng/L		06/29/23 04:46	07/01/23 07:48	100
11CI-PF3OUdS	<29		180	29	ng/L		06/29/23 04:46	07/01/23 07:48	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98		25 - 150				06/29/23 04:46	07/01/23 07:48	100
13C5 PFPeA	104		25 - 150				06/29/23 04:46	07/01/23 07:48	100
13C2 PFHxA	91		25 - 150				06/29/23 04:46	07/01/23 07:48	100
13C4 PFHpA	100		25 - 150				06/29/23 04:46	07/01/23 07:48	100
13C4 PFOA	100		25 - 150				06/29/23 04:46	07/01/23 07:48	100
13C5 PFNA	100		25 - 150				06/29/23 04:46	07/01/23 07:48	100
13C2 PFDA	92		25 - 150				06/29/23 04:46	07/01/23 07:48	100
13C2 PFUnA	77		25 - 150				06/29/23 04:46	07/01/23 07:48	100
13C2 PFDoA	97		25 - 150				06/29/23 04:46	07/01/23 07:48	100
13C2 PFTeDA	84		25 - 150				06/29/23 04:46	07/01/23 07:48	100

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Outfall 21

Lab Sample ID: 500-234885-2

Date Collected: 06/06/23 08:10

Matrix: Water

Date Received: 06/07/23 09:20

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	92		25 - 150	06/29/23 04:46	07/01/23 07:48	100
18O2 PFHxS	101		25 - 150	06/29/23 04:46	07/01/23 07:48	100
13C4 PFOS	97		25 - 150	06/29/23 04:46	07/01/23 07:48	100
13C8 FOSA	109		10 - 150	06/29/23 04:46	07/01/23 07:48	100
d3-NMeFOSAA	102		25 - 150	06/29/23 04:46	07/01/23 07:48	100
d5-NEtFOSAA	105		25 - 150	06/29/23 04:46	07/01/23 07:48	100
d-N-MeFOSA-M	68		10 - 150	06/29/23 04:46	07/01/23 07:48	100
d-N-EtFOSA-M	89		10 - 150	06/29/23 04:46	07/01/23 07:48	100
d7-N-MeFOSE-M	58		10 - 150	06/29/23 04:46	07/01/23 07:48	100
d9-N-EtFOSE-M	77		10 - 150	06/29/23 04:46	07/01/23 07:48	100
M2-4:2 FTS	90		25 - 150	06/29/23 04:46	07/01/23 07:48	100
M2-6:2 FTS	91		25 - 150	06/29/23 04:46	07/01/23 07:48	100
M2-8:2 FTS	110		25 - 150	06/29/23 04:46	07/01/23 07:48	100
13C3 HFPO-DA	89		25 - 150	06/29/23 04:46	07/01/23 07:48	100
13C2 10:2 FTS	88		25 - 150	06/29/23 04:46	07/01/23 07:48	100

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-234885-3

Date Collected: 06/06/23 08:15

Matrix: Water

Date Received: 06/07/23 09:20

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	300	J	450	220	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluoropentanoic acid (PFPeA)	1200		180	44	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorohexanoic acid (PFHxA)	1300		180	52	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluoroheptanoic acid (PFHpA)	410		180	23	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorooctanoic acid (PFOA)	860		180	77	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorononanoic acid (PFNA)	54	J	180	24	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorodecanoic acid (PFDA)	<28		180	28	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluoroundecanoic acid (PFUnA)	<99		180	99	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorododecanoic acid (PFDoA)	<50		180	50	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorotridecanoic acid (PFTrDA)	<120		180	120	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorotetradecanoic acid (PFTeA)	<66		180	66	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorobutanesulfonic acid (PFBS)	750		180	18	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluoropentanesulfonic acid (PFPeS)	1200		180	27	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorohexanesulfonic acid (PFHxS)	7200		180	52	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluoroheptanesulfonic acid (PFHpS)	270		180	17	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorooctanesulfonic acid (PFOS)	13000		180	49	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorononanesulfonic acid (PFNS)	<33		180	33	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorodecanesulfonic acid (PFDS)	<29		180	29	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorododecanesulfonic acid (PFDoS)	<88		180	88	ng/L		06/29/23 04:46	07/01/23 08:22	100
Perfluorooctanesulfonamide (FOSA)	<89		180	89	ng/L		06/29/23 04:46	07/01/23 08:22	100
NEtFOSA	<79		180	79	ng/L		06/29/23 04:46	07/01/23 08:22	100
NMeFOSA	<39		180	39	ng/L		06/29/23 04:46	07/01/23 08:22	100
NMeFOSAA	<110		450	110	ng/L		06/29/23 04:46	07/01/23 08:22	100
NEtFOSAA	<120		450	120	ng/L		06/29/23 04:46	07/01/23 08:22	100
NMeFOSE	<130		360	130	ng/L		06/29/23 04:46	07/01/23 08:22	100
NEtFOSE	<77		180	77	ng/L		06/29/23 04:46	07/01/23 08:22	100
4:2 FTS	<22		180	22	ng/L		06/29/23 04:46	07/01/23 08:22	100
6:2 FTS	2200		450	230	ng/L		06/29/23 04:46	07/01/23 08:22	100
8:2 FTS	390		180	42	ng/L		06/29/23 04:46	07/01/23 08:22	100
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<36		180	36	ng/L		06/29/23 04:46	07/01/23 08:22	100
HFPO-DA (GenX)	<140		360	140	ng/L		06/29/23 04:46	07/01/23 08:22	100
9CI-PF3ONS	<22		180	22	ng/L		06/29/23 04:46	07/01/23 08:22	100
11CI-PF3OUdS	<29		180	29	ng/L		06/29/23 04:46	07/01/23 08:22	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	104		25 - 150				06/29/23 04:46	07/01/23 08:22	100
13C5 PFPeA	92		25 - 150				06/29/23 04:46	07/01/23 08:22	100
13C2 PFHxA	89		25 - 150				06/29/23 04:46	07/01/23 08:22	100
13C4 PFHpA	88		25 - 150				06/29/23 04:46	07/01/23 08:22	100
13C4 PFOA	86		25 - 150				06/29/23 04:46	07/01/23 08:22	100
13C5 PFNA	96		25 - 150				06/29/23 04:46	07/01/23 08:22	100
13C2 PFDA	90		25 - 150				06/29/23 04:46	07/01/23 08:22	100
13C2 PFUnA	84		25 - 150				06/29/23 04:46	07/01/23 08:22	100
13C2 PFDoA	75		25 - 150				06/29/23 04:46	07/01/23 08:22	100
13C2 PFTeDA	64		25 - 150				06/29/23 04:46	07/01/23 08:22	100

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-234885-3

Date Collected: 06/06/23 08:15

Matrix: Water

Date Received: 06/07/23 09:20

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	85		25 - 150	06/29/23 04:46	07/01/23 08:22	100
18O2 PFHxS	107		25 - 150	06/29/23 04:46	07/01/23 08:22	100
13C4 PFOS	114		25 - 150	06/29/23 04:46	07/01/23 08:22	100
13C8 FOSA	110		10 - 150	06/29/23 04:46	07/01/23 08:22	100
d3-NMeFOSAA	115		25 - 150	06/29/23 04:46	07/01/23 08:22	100
d5-NEtFOSAA	127		25 - 150	06/29/23 04:46	07/01/23 08:22	100
d-N-MeFOSA-M	58		10 - 150	06/29/23 04:46	07/01/23 08:22	100
d-N-EtFOSA-M	64		10 - 150	06/29/23 04:46	07/01/23 08:22	100
d7-N-MeFOSE-M	53		10 - 150	06/29/23 04:46	07/01/23 08:22	100
d9-N-EtFOSE-M	74		10 - 150	06/29/23 04:46	07/01/23 08:22	100
M2-4:2 FTS	67		25 - 150	06/29/23 04:46	07/01/23 08:22	100
M2-6:2 FTS	115		25 - 150	06/29/23 04:46	07/01/23 08:22	100
M2-8:2 FTS	68		25 - 150	06/29/23 04:46	07/01/23 08:22	100
13C3 HFPO-DA	101		25 - 150	06/29/23 04:46	07/01/23 08:22	100
13C2 10:2 FTS	72		25 - 150	06/29/23 04:46	07/01/23 08:22	100

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 11

Lab Sample ID: 500-234885-4

Date Collected: 06/06/23 09:35

Matrix: Water

Date Received: 06/07/23 09:20

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<12		25	12	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluoropentanoic acid (PFPeA)	17		10	2.5	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorohexanoic acid (PFHxA)	18		10	2.9	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluoroheptanoic acid (PFHpA)	8.4 J		10	1.3	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorooctanoic acid (PFOA)	22		10	4.3	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorononanoic acid (PFNA)	<1.4		10	1.4	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorodecanoic acid (PFDA)	<1.6		10	1.6	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorotridecanoic acid (PFTrDA)	<6.5		10	6.5	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorobutanesulfonic acid (PFBS)	7.4 J		10	1.0	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluoropentanesulfonic acid (PFPeS)	9.6 J		10	1.5	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorohexanesulfonic acid (PFHxS)	83		10	2.9	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluoroheptanesulfonic acid (PFHpS)	1.6 J		10	0.95	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorooctanesulfonic acid (PFOS)	68		10	2.7	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		06/29/23 04:46	07/04/23 12:28	1
Perfluorooctanesulfonamide (FOSA)	<4.9		10	4.9	ng/L		06/29/23 04:46	07/04/23 12:28	1
NEtFOSA	<4.4		10	4.4	ng/L		06/29/23 04:46	07/04/23 12:28	1
NMeFOSA	<2.2		10	2.2	ng/L		06/29/23 04:46	07/04/23 12:28	1
NMeFOSAA	<6.0		25	6.0	ng/L		06/29/23 04:46	07/04/23 12:28	1
NEtFOSAA	<6.5		25	6.5	ng/L		06/29/23 04:46	07/04/23 12:28	1
NMeFOSE	<7.0		20	7.0	ng/L		06/29/23 04:46	07/04/23 12:28	1
NEtFOSE	<4.3		10	4.3	ng/L		06/29/23 04:46	07/04/23 12:28	1
4:2 FTS	<1.2		10	1.2	ng/L		06/29/23 04:46	07/04/23 12:28	1
6:2 FTS	<13		25	13	ng/L		06/29/23 04:46	07/04/23 12:28	1
8:2 FTS	<2.3		10	2.3	ng/L		06/29/23 04:46	07/04/23 12:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		10	2.0	ng/L		06/29/23 04:46	07/04/23 12:28	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		06/29/23 04:46	07/04/23 12:28	1
9Cl-PF3ONS	<1.2		10	1.2	ng/L		06/29/23 04:46	07/04/23 12:28	1
11Cl-PF3OUdS	<1.6		10	1.6	ng/L		06/29/23 04:46	07/04/23 12:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150				06/29/23 04:46	07/04/23 12:28	1
13C5 PFPeA	99		25 - 150				06/29/23 04:46	07/04/23 12:28	1
13C2 PFHxA	100		25 - 150				06/29/23 04:46	07/04/23 12:28	1
13C4 PFHpA	99		25 - 150				06/29/23 04:46	07/04/23 12:28	1
13C4 PFOA	97		25 - 150				06/29/23 04:46	07/04/23 12:28	1
13C5 PFNA	105		25 - 150				06/29/23 04:46	07/04/23 12:28	1
13C2 PFDA	100		25 - 150				06/29/23 04:46	07/04/23 12:28	1
13C2 PFUnA	102		25 - 150				06/29/23 04:46	07/04/23 12:28	1
13C2 PFDoA	103		25 - 150				06/29/23 04:46	07/04/23 12:28	1
13C2 PFTeDA	93		25 - 150				06/29/23 04:46	07/04/23 12:28	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 11

Lab Sample ID: 500-234885-4

Date Collected: 06/06/23 09:35

Matrix: Water

Date Received: 06/07/23 09:20

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	98		25 - 150	06/29/23 04:46	07/04/23 12:28	1
18O2 PFHxS	100		25 - 150	06/29/23 04:46	07/04/23 12:28	1
13C4 PFOS	101		25 - 150	06/29/23 04:46	07/04/23 12:28	1
13C8 FOSA	112		10 - 150	06/29/23 04:46	07/04/23 12:28	1
d3-NMeFOSAA	119		25 - 150	06/29/23 04:46	07/04/23 12:28	1
d5-NEtFOSAA	138		25 - 150	06/29/23 04:46	07/04/23 12:28	1
d-N-MeFOSA-M	93		10 - 150	06/29/23 04:46	07/04/23 12:28	1
d-N-EtFOSA-M	85		10 - 150	06/29/23 04:46	07/04/23 12:28	1
d7-N-MeFOSE-M	88		10 - 150	06/29/23 04:46	07/04/23 12:28	1
d9-N-EtFOSE-M	82		10 - 150	06/29/23 04:46	07/04/23 12:28	1
M2-4:2 FTS	102		25 - 150	06/29/23 04:46	07/04/23 12:28	1
M2-6:2 FTS	81		25 - 150	06/29/23 04:46	07/04/23 12:28	1
M2-8:2 FTS	87		25 - 150	06/29/23 04:46	07/04/23 12:28	1
13C3 HFPO-DA	92		25 - 150	06/29/23 04:46	07/04/23 12:28	1
13C2 10:2 FTS	107		25 - 150	06/29/23 04:46	07/04/23 12:28	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 10

Lab Sample ID: 500-234885-5

Date Collected: 06/06/23 09:20

Matrix: Water

Date Received: 06/07/23 09:20

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	110		25	12	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluoropentanoic acid (PFPeA)	330		10	2.5	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorohexanoic acid (PFHxA)	430		10	2.9	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluoroheptanoic acid (PFHpA)	140		10	1.3	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorooctanoic acid (PFOA)	410		10	4.3	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorononanoic acid (PFNA)	23		10	1.4	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorodecanoic acid (PFDA)	3.6	J	10	1.6	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorotridecanoic acid (PFTrDA)	<6.5		10	6.5	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorobutanesulfonic acid (PFBS)	200		10	1.0	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluoropentanesulfonic acid (PFPeS)	310		10	1.5	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluoroheptanesulfonic acid (PFHpS)	91		10	0.95	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		06/29/23 04:46	07/04/23 15:04	1
Perfluorooctanesulfonamide (FOSA)	7.1	J	10	4.9	ng/L		06/29/23 04:46	07/04/23 15:04	1
NEtFOSA	<4.4		10	4.4	ng/L		06/29/23 04:46	07/04/23 15:04	1
NMeFOSA	<2.2		10	2.2	ng/L		06/29/23 04:46	07/04/23 15:04	1
NMeFOSAA	<6.0		25	6.0	ng/L		06/29/23 04:46	07/04/23 15:04	1
NEtFOSAA	<6.5		25	6.5	ng/L		06/29/23 04:46	07/04/23 15:04	1
NMeFOSE	<7.0		20	7.0	ng/L		06/29/23 04:46	07/04/23 15:04	1
NEtFOSE	<4.3		10	4.3	ng/L		06/29/23 04:46	07/04/23 15:04	1
4:2 FTS	12		10	1.2	ng/L		06/29/23 04:46	07/04/23 15:04	1
6:2 FTS	890		25	13	ng/L		06/29/23 04:46	07/04/23 15:04	1
8:2 FTS	120		10	2.3	ng/L		06/29/23 04:46	07/04/23 15:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		10	2.0	ng/L		06/29/23 04:46	07/04/23 15:04	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		06/29/23 04:46	07/04/23 15:04	1
9Cl-PF3ONS	<1.2		10	1.2	ng/L		06/29/23 04:46	07/04/23 15:04	1
11Cl-PF3OUdS	<1.6		10	1.6	ng/L		06/29/23 04:46	07/04/23 15:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	61		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C5 PFPeA	64		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C2 PFHxA	63		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C4 PFHpA	61		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C4 PFOA	60		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C5 PFNA	62		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C2 PFDA	60		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C2 PFUnA	55		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C2 PFDoA	47		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C2 PFTeDA	46		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C3 PFBS	62		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C4 PFOS	59		25 - 150				06/29/23 04:46	07/04/23 15:04	1
13C8 FOSA	64		10 - 150				06/29/23 04:46	07/04/23 15:04	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 10

Lab Sample ID: 500-234885-5

Date Collected: 06/06/23 09:20

Matrix: Water

Date Received: 06/07/23 09:20

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d3-NMeFOSAA	67		25 - 150	06/29/23 04:46	07/04/23 15:04	1
d5-NEtFOSAA	77		25 - 150	06/29/23 04:46	07/04/23 15:04	1
d-N-MeFOSA-M	35		10 - 150	06/29/23 04:46	07/04/23 15:04	1
d-N-EtFOSA-M	35		10 - 150	06/29/23 04:46	07/04/23 15:04	1
d7-N-MeFOSE-M	32		10 - 150	06/29/23 04:46	07/04/23 15:04	1
d9-N-EtFOSE-M	33		10 - 150	06/29/23 04:46	07/04/23 15:04	1
M2-4:2 FTS	53		25 - 150	06/29/23 04:46	07/04/23 15:04	1
M2-6:2 FTS	48		25 - 150	06/29/23 04:46	07/04/23 15:04	1
M2-8:2 FTS	57		25 - 150	06/29/23 04:46	07/04/23 15:04	1
13C3 HFPO-DA	59		25 - 150	06/29/23 04:46	07/04/23 15:04	1
13C2 10:2 FTS	51		25 - 150	06/29/23 04:46	07/04/23 15:04	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorohexanesulfonic acid (PFHxS)	2300		100	29	ng/L		06/29/23 04:46	07/04/23 13:46	10
Perfluorooctanesulfonic acid (PFOS)	4900		100	27	ng/L		06/29/23 04:46	07/04/23 13:46	10

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	57		25 - 150	06/29/23 04:46	07/04/23 13:46	10
13C4 PFOS	53		25 - 150	06/29/23 04:46	07/04/23 13:46	10

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 4A

Lab Sample ID: 500-234885-6

Date Collected: 06/06/23 11:00

Matrix: Water

Date Received: 06/07/23 09:20

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<12		25	12	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluoropentanoic acid (PFPeA)	<2.5		10	2.5	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorohexanoic acid (PFHxA)	<2.9		10	2.9	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluoroheptanoic acid (PFHpA)	<1.3		10	1.3	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorooctanoic acid (PFOA)	<4.3		10	4.3	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorononanoic acid (PFNA)	<1.4		10	1.4	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorodecanoic acid (PFDA)	<1.6		10	1.6	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorotridecanoic acid (PFTrDA)	<6.5		10	6.5	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorobutanesulfonic acid (PFBS)	<1.0		10	1.0	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		10	1.5	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorohexanesulfonic acid (PFHxS)	<2.9		10	2.9	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.95		10	0.95	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorooctanesulfonic acid (PFOS)	<2.7		10	2.7	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		06/29/23 04:46	07/04/23 12:39	1
Perfluorooctanesulfonamide (FOSA)	<4.9		10	4.9	ng/L		06/29/23 04:46	07/04/23 12:39	1
NEtFOSA	<4.4		10	4.4	ng/L		06/29/23 04:46	07/04/23 12:39	1
NMeFOSA	<2.2		10	2.2	ng/L		06/29/23 04:46	07/04/23 12:39	1
NMeFOSAA	<6.0		25	6.0	ng/L		06/29/23 04:46	07/04/23 12:39	1
NEtFOSAA	<6.5		25	6.5	ng/L		06/29/23 04:46	07/04/23 12:39	1
NMeFOSE	<7.0		20	7.0	ng/L		06/29/23 04:46	07/04/23 12:39	1
NEtFOSE	<4.3		10	4.3	ng/L		06/29/23 04:46	07/04/23 12:39	1
4:2 FTS	<1.2		10	1.2	ng/L		06/29/23 04:46	07/04/23 12:39	1
6:2 FTS	17 J		25	13	ng/L		06/29/23 04:46	07/04/23 12:39	1
8:2 FTS	<2.3		10	2.3	ng/L		06/29/23 04:46	07/04/23 12:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		10	2.0	ng/L		06/29/23 04:46	07/04/23 12:39	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		06/29/23 04:46	07/04/23 12:39	1
9Cl-PF3ONS	<1.2		10	1.2	ng/L		06/29/23 04:46	07/04/23 12:39	1
11Cl-PF3OUdS	<1.6		10	1.6	ng/L		06/29/23 04:46	07/04/23 12:39	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	100		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C5 PFPeA	108		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C2 PFHxA	104		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C4 PFHpA	103		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C4 PFOA	101		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C5 PFNA	104		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C2 PFDA	102		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C2 PFUnA	108		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C2 PFDoA	102		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C2 PFTeDA	104		25 - 150				06/29/23 04:46	07/04/23 12:39	1
13C3 PFBS	101		25 - 150				06/29/23 04:46	07/04/23 12:39	1
18O2 PFHxS	100		25 - 150				06/29/23 04:46	07/04/23 12:39	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 4A

Lab Sample ID: 500-234885-6

Date Collected: 06/06/23 11:00

Matrix: Water

Date Received: 06/07/23 09:20

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	101		25 - 150	06/29/23 04:46	07/04/23 12:39	1
13C8 FOSA	127		10 - 150	06/29/23 04:46	07/04/23 12:39	1
d3-NMeFOSAA	130		25 - 150	06/29/23 04:46	07/04/23 12:39	1
d5-NEtFOSAA	148		25 - 150	06/29/23 04:46	07/04/23 12:39	1
d-N-MeFOSA-M	110		10 - 150	06/29/23 04:46	07/04/23 12:39	1
d-N-EtFOSA-M	103		10 - 150	06/29/23 04:46	07/04/23 12:39	1
d7-N-MeFOSE-M	92		10 - 150	06/29/23 04:46	07/04/23 12:39	1
d9-N-EtFOSE-M	92		10 - 150	06/29/23 04:46	07/04/23 12:39	1
M2-4:2 FTS	87		25 - 150	06/29/23 04:46	07/04/23 12:39	1
M2-6:2 FTS	83		25 - 150	06/29/23 04:46	07/04/23 12:39	1
M2-8:2 FTS	93		25 - 150	06/29/23 04:46	07/04/23 12:39	1
13C3 HFPO-DA	96		25 - 150	06/29/23 04:46	07/04/23 12:39	1
13C2 10:2 FTS	107		25 - 150	06/29/23 04:46	07/04/23 12:39	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 7

Lab Sample ID: 500-234885-7

Date Collected: 06/06/23 10:20

Matrix: Water

Date Received: 06/07/23 09:20

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	18	J	25	12	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluoropentanoic acid (PFPeA)	43		10	2.5	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorohexanoic acid (PFHxA)	52		10	2.9	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluoroheptanoic acid (PFHpA)	15		10	1.3	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorooctanoic acid (PFOA)	56		10	4.3	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorononanoic acid (PFNA)	3.1	J	10	1.4	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorodecanoic acid (PFDA)	<1.6		10	1.6	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorotridecanoic acid (PFTrDA)	<6.5		10	6.5	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorobutanesulfonic acid (PFBS)	22		10	1.0	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluoropentanesulfonic acid (PFPeS)	33		10	1.5	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorohexanesulfonic acid (PFHxS)	240		10	2.9	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluoroheptanesulfonic acid (PFHpS)	7.5	J	10	0.95	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorooctanesulfonic acid (PFOS)	400		10	2.7	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		06/29/23 04:46	07/05/23 20:03	1
Perfluorooctanesulfonamide (FOSA)	<4.9		10	4.9	ng/L		06/29/23 04:46	07/05/23 20:03	1
NEtFOSA	<4.4		10	4.4	ng/L		06/29/23 04:46	07/05/23 20:03	1
NMeFOSA	<2.2		10	2.2	ng/L		06/29/23 04:46	07/05/23 20:03	1
NMeFOSAA	<6.0		25	6.0	ng/L		06/29/23 04:46	07/05/23 20:03	1
NEtFOSAA	<6.5		25	6.5	ng/L		06/29/23 04:46	07/05/23 20:03	1
NMeFOSE	<7.0		20	7.0	ng/L		06/29/23 04:46	07/05/23 20:03	1
NEtFOSE	<4.3		10	4.3	ng/L		06/29/23 04:46	07/05/23 20:03	1
4:2 FTS	1.2	J	10	1.2	ng/L		06/29/23 04:46	07/05/23 20:03	1
6:2 FTS	61		25	13	ng/L		06/29/23 04:46	07/05/23 20:03	1
8:2 FTS	3.2	J	10	2.3	ng/L		06/29/23 04:46	07/05/23 20:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		10	2.0	ng/L		06/29/23 04:46	07/05/23 20:03	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		06/29/23 04:46	07/05/23 20:03	1
9CI-PF3ONS	<1.2		10	1.2	ng/L		06/29/23 04:46	07/05/23 20:03	1
11CI-PF3OUdS	<1.6		10	1.6	ng/L		06/29/23 04:46	07/05/23 20:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150				06/29/23 04:46	07/05/23 20:03	1
13C5 PFPeA	95		25 - 150				06/29/23 04:46	07/05/23 20:03	1
13C2 PFHxA	96		25 - 150				06/29/23 04:46	07/05/23 20:03	1
13C4 PFHpA	105		25 - 150				06/29/23 04:46	07/05/23 20:03	1
13C4 PFOA	94		25 - 150				06/29/23 04:46	07/05/23 20:03	1
13C5 PFNA	101		25 - 150				06/29/23 04:46	07/05/23 20:03	1
13C2 PFDA	98		25 - 150				06/29/23 04:46	07/05/23 20:03	1
13C2 PFUnA	103		25 - 150				06/29/23 04:46	07/05/23 20:03	1
13C2 PFDoA	102		25 - 150				06/29/23 04:46	07/05/23 20:03	1
13C2 PFTeDA	101		25 - 150				06/29/23 04:46	07/05/23 20:03	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 7

Lab Sample ID: 500-234885-7

Date Collected: 06/06/23 10:20

Matrix: Water

Date Received: 06/07/23 09:20

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	93		25 - 150	06/29/23 04:46	07/05/23 20:03	1
18O2 PFHxS	100		25 - 150	06/29/23 04:46	07/05/23 20:03	1
13C4 PFOS	101		25 - 150	06/29/23 04:46	07/05/23 20:03	1
13C8 FOSA	114		10 - 150	06/29/23 04:46	07/05/23 20:03	1
d3-NMeFOSAA	126		25 - 150	06/29/23 04:46	07/05/23 20:03	1
d5-NEtFOSAA	147		25 - 150	06/29/23 04:46	07/05/23 20:03	1
d-N-MeFOSA-M	91		10 - 150	06/29/23 04:46	07/05/23 20:03	1
d-N-EtFOSA-M	91		10 - 150	06/29/23 04:46	07/05/23 20:03	1
d7-N-MeFOSE-M	86		10 - 150	06/29/23 04:46	07/05/23 20:03	1
d9-N-EtFOSE-M	86		10 - 150	06/29/23 04:46	07/05/23 20:03	1
M2-4:2 FTS	88		25 - 150	06/29/23 04:46	07/05/23 20:03	1
M2-6:2 FTS	78		25 - 150	06/29/23 04:46	07/05/23 20:03	1
M2-8:2 FTS	91		25 - 150	06/29/23 04:46	07/05/23 20:03	1
13C3 HFPO-DA	97		25 - 150	06/29/23 04:46	07/05/23 20:03	1
13C2 10:2 FTS	110		25 - 150	06/29/23 04:46	07/05/23 20:03	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Field Blank

Lab Sample ID: 500-234885-8

Date Collected: 06/06/23 09:30

Matrix: Water

Date Received: 06/07/23 09:20

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.8	0.43	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.8	0.51	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorooctanoic acid (PFOA)	<0.75		1.8	0.75	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.8	0.50	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		06/29/23 04:46	07/04/23 12:50	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		06/29/23 04:46	07/04/23 12:50	1
NEtFOSA	<0.77		1.8	0.77	ng/L		06/29/23 04:46	07/04/23 12:50	1
NMeFOSA	<0.38		1.8	0.38	ng/L		06/29/23 04:46	07/04/23 12:50	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		06/29/23 04:46	07/04/23 12:50	1
NEtFOSAA	<1.2		4.4	1.2	ng/L		06/29/23 04:46	07/04/23 12:50	1
NMeFOSE	<1.2		3.5	1.2	ng/L		06/29/23 04:46	07/04/23 12:50	1
NEtFOSE	<0.75		1.8	0.75	ng/L		06/29/23 04:46	07/04/23 12:50	1
4:2 FTS	<0.21		1.8	0.21	ng/L		06/29/23 04:46	07/04/23 12:50	1
6:2 FTS	<2.2		4.4	2.2	ng/L		06/29/23 04:46	07/04/23 12:50	1
8:2 FTS	<0.41		1.8	0.41	ng/L		06/29/23 04:46	07/04/23 12:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		06/29/23 04:46	07/04/23 12:50	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		06/29/23 04:46	07/04/23 12:50	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		06/29/23 04:46	07/04/23 12:50	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		06/29/23 04:46	07/04/23 12:50	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	94		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C5 PFPeA	96		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C2 PFHxA	92		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C4 PFHpA	98		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C4 PFOA	100		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C5 PFNA	95		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C2 PFDA	100		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C2 PFUnA	93		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C2 PFDoA	102		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C2 PFTeDA	99		25 - 150				06/29/23 04:46	07/04/23 12:50	1
13C3 PFBS	100		25 - 150				06/29/23 04:46	07/04/23 12:50	1
18O2 PFHxS	100		25 - 150				06/29/23 04:46	07/04/23 12:50	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Field Blank

Lab Sample ID: 500-234885-8

Date Collected: 06/06/23 09:30

Matrix: Water

Date Received: 06/07/23 09:20

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	101		25 - 150	06/29/23 04:46	07/04/23 12:50	1
13C8 FOSA	115		10 - 150	06/29/23 04:46	07/04/23 12:50	1
d3-NMeFOSAA	124		25 - 150	06/29/23 04:46	07/04/23 12:50	1
d5-NEtFOSAA	134		25 - 150	06/29/23 04:46	07/04/23 12:50	1
d-N-MeFOSA-M	88		10 - 150	06/29/23 04:46	07/04/23 12:50	1
d-N-EtFOSA-M	90		10 - 150	06/29/23 04:46	07/04/23 12:50	1
d7-N-MeFOSE-M	87		10 - 150	06/29/23 04:46	07/04/23 12:50	1
d9-N-EtFOSE-M	87		10 - 150	06/29/23 04:46	07/04/23 12:50	1
M2-4:2 FTS	89		25 - 150	06/29/23 04:46	07/04/23 12:50	1
M2-6:2 FTS	80		25 - 150	06/29/23 04:46	07/04/23 12:50	1
M2-8:2 FTS	87		25 - 150	06/29/23 04:46	07/04/23 12:50	1
13C3 HFPO-DA	86		25 - 150	06/29/23 04:46	07/04/23 12:50	1
13C2 10:2 FTS	102		25 - 150	06/29/23 04:46	07/04/23 12:50	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

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

QC Association Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

LCMS

Prep Batch: 686820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234885-1 - DL	Outfall 32	Total/NA	Water	3535	
500-234885-1	Outfall 32	Total/NA	Water	3535	
500-234885-2	Outfall 21	Total/NA	Water	3535	
500-234885-3	Outfall 21 DUP	Total/NA	Water	3535	
500-234885-4	Station 11	Total/NA	Water	3535	
500-234885-5 - DL	Station 10	Total/NA	Water	3535	
500-234885-5	Station 10	Total/NA	Water	3535	
500-234885-6	Station 4A	Total/NA	Water	3535	
500-234885-7	Station 7	Total/NA	Water	3535	
500-234885-8	Field Blank	Total/NA	Water	3535	
MB 320-686820/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-686820/2-A	Lab Control Sample	Total/NA	Water	3535	
500-234885-7 MS	Station 7	Total/NA	Water	3535	
500-234885-7 MSD	Station 7	Total/NA	Water	3535	

Analysis Batch: 687637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234885-2	Outfall 21	Total/NA	Water	537 (modified)	686820
500-234885-3	Outfall 21 DUP	Total/NA	Water	537 (modified)	686820
MB 320-686820/1-A	Method Blank	Total/NA	Water	537 (modified)	686820
LCS 320-686820/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	686820

Analysis Batch: 687910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234885-1 - DL	Outfall 32	Total/NA	Water	537 (modified)	686820
500-234885-1	Outfall 32	Total/NA	Water	537 (modified)	686820
500-234885-4	Station 11	Total/NA	Water	537 (modified)	686820
500-234885-5 - DL	Station 10	Total/NA	Water	537 (modified)	686820
500-234885-5	Station 10	Total/NA	Water	537 (modified)	686820
500-234885-6	Station 4A	Total/NA	Water	537 (modified)	686820
500-234885-8	Field Blank	Total/NA	Water	537 (modified)	686820

Analysis Batch: 688274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234885-7	Station 7	Total/NA	Water	537 (modified)	686820
500-234885-7 MS	Station 7	Total/NA	Water	537 (modified)	686820
500-234885-7 MSD	Station 7	Total/NA	Water	537 (modified)	686820

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-686820/1-A
Matrix: Water
Analysis Batch: 687637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686820

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.8	0.53	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.8	0.18	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.8	0.30	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		06/29/23 04:46	07/01/23 06:08	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		06/29/23 04:46	07/01/23 06:08	1
NEtFOSA	<0.80		1.8	0.80	ng/L		06/29/23 04:46	07/01/23 06:08	1
NMeFOSA	<0.40		1.8	0.40	ng/L		06/29/23 04:46	07/01/23 06:08	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		06/29/23 04:46	07/01/23 06:08	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		06/29/23 04:46	07/01/23 06:08	1
NMeFOSE	<1.3		3.7	1.3	ng/L		06/29/23 04:46	07/01/23 06:08	1
NEtFOSE	<0.78		1.8	0.78	ng/L		06/29/23 04:46	07/01/23 06:08	1
4:2 FTS	<0.22		1.8	0.22	ng/L		06/29/23 04:46	07/01/23 06:08	1
6:2 FTS	<2.3		4.6	2.3	ng/L		06/29/23 04:46	07/01/23 06:08	1
8:2 FTS	<0.42		1.8	0.42	ng/L		06/29/23 04:46	07/01/23 06:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		06/29/23 04:46	07/01/23 06:08	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		06/29/23 04:46	07/01/23 06:08	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		06/29/23 04:46	07/01/23 06:08	1
11Cl-PF3OUdS	<0.30		1.8	0.30	ng/L		06/29/23 04:46	07/01/23 06:08	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	98		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C5 PFPeA	98		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C2 PFHxA	91		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C4 PFHpA	99		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C4 PFOA	97		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C5 PFNA	96		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C2 PFDA	98		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C2 PFUnA	94		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C2 PFDoA	95		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C2 PFTeDA	98		25 - 150	06/29/23 04:46	07/01/23 06:08	1

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

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

Lab Sample ID: MB 320-686820/1-A
Matrix: Water
Analysis Batch: 687637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686820

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	90		25 - 150	06/29/23 04:46	07/01/23 06:08	1
18O2 PFHxS	92		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C4 PFOS	93		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C8 FOSA	104		10 - 150	06/29/23 04:46	07/01/23 06:08	1
d3-NMeFOSAA	123		25 - 150	06/29/23 04:46	07/01/23 06:08	1
d5-NEtFOSAA	132		25 - 150	06/29/23 04:46	07/01/23 06:08	1
d-N-MeFOSA-M	87		10 - 150	06/29/23 04:46	07/01/23 06:08	1
d-N-EtFOSA-M	87		10 - 150	06/29/23 04:46	07/01/23 06:08	1
d7-N-MeFOSE-M	91		10 - 150	06/29/23 04:46	07/01/23 06:08	1
d9-N-EtFOSE-M	91		10 - 150	06/29/23 04:46	07/01/23 06:08	1
M2-4:2 FTS	88		25 - 150	06/29/23 04:46	07/01/23 06:08	1
M2-6:2 FTS	80		25 - 150	06/29/23 04:46	07/01/23 06:08	1
M2-8:2 FTS	84		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C3 HFPO-DA	83		25 - 150	06/29/23 04:46	07/01/23 06:08	1
13C2 10:2 FTS	86		25 - 150	06/29/23 04:46	07/01/23 06:08	1

Lab Sample ID: LCS 320-686820/2-A
Matrix: Water
Analysis Batch: 687637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	37.4	42.3		ng/L		113	60 - 135
Perfluoropentanoic acid (PFPeA)	37.4	38.1		ng/L		102	60 - 135
Perfluorohexanoic acid (PFHxA)	37.4	41.9		ng/L		112	60 - 135
Perfluoroheptanoic acid (PFHpA)	37.4	37.2		ng/L		100	60 - 135
Perfluorooctanoic acid (PFOA)	37.4	39.1		ng/L		105	60 - 135
Perfluorononanoic acid (PFNA)	37.4	38.1		ng/L		102	60 - 135
Perfluorodecanoic acid (PFDA)	37.4	37.5		ng/L		100	60 - 135
Perfluoroundecanoic acid (PFUnA)	37.4	36.6		ng/L		98	60 - 135
Perfluorododecanoic acid (PFDoA)	37.4	36.7		ng/L		98	60 - 135
Perfluorotridecanoic acid (PFTrDA)	37.4	38.0		ng/L		102	60 - 135
Perfluorotetradecanoic acid (PFTeA)	37.4	40.0		ng/L		107	60 - 135
Perfluorobutanesulfonic acid (PFBS)	33.2	32.3		ng/L		97	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	35.1	37.5		ng/L		107	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	34.1	32.8		ng/L		96	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	35.6	37.9		ng/L		106	60 - 135
Perfluorooctanesulfonic acid (PFOS)	34.7	34.4		ng/L		99	60 - 135
Perfluorononanesulfonic acid (PFNS)	35.9	37.1		ng/L		103	60 - 135
Perfluorodecanesulfonic acid (PFDS)	36.0	35.8		ng/L		99	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	36.2	32.0		ng/L		88	60 - 135

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

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

Lab Sample ID: LCS 320-686820/2-A
Matrix: Water
Analysis Batch: 687637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	37.4	37.0		ng/L		99	60 - 135
NEtFOSA	37.4	39.2		ng/L		105	60 - 135
NMeFOSA	37.4	40.7		ng/L		109	60 - 135
NMeFOSAA	37.4	41.0		ng/L		110	60 - 135
NEtFOSAA	37.4	39.3		ng/L		105	60 - 135
NMeFOSE	37.4	40.7		ng/L		109	60 - 135
NEtFOSE	37.4	38.5		ng/L		103	60 - 135
4:2 FTS	35.0	33.9		ng/L		97	60 - 135
6:2 FTS	35.6	36.6		ng/L		103	60 - 135
8:2 FTS	35.9	35.6		ng/L		99	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	35.3	42.5		ng/L		120	60 - 135
HFPO-DA (GenX)	37.4	38.0		ng/L		102	60 - 135
9Cl-PF3ONS	34.9	33.5		ng/L		96	60 - 135
11Cl-PF3OUdS	35.3	33.1		ng/L		94	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	95		25 - 150
13C5 PFPeA	101		25 - 150
13C2 PFHxA	93		25 - 150
13C4 PFHpA	99		25 - 150
13C4 PFOA	92		25 - 150
13C5 PFNA	95		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	95		25 - 150
13C2 PFDoA	93		25 - 150
13C2 PFTeDA	86		25 - 150
13C3 PFBS	94		25 - 150
18O2 PFHxS	95		25 - 150
13C4 PFOS	93		25 - 150
13C8 FOSA	99		10 - 150
d3-NMeFOSAA	117		25 - 150
d5-NEtFOSAA	123		25 - 150
d-N-MeFOSA-M	82		10 - 150
d-N-EtFOSA-M	83		10 - 150
d7-N-MeFOSE-M	85		10 - 150
d9-N-EtFOSE-M	85		10 - 150
M2-4:2 FTS	82		25 - 150
M2-6:2 FTS	76		25 - 150
M2-8:2 FTS	82		25 - 150
13C3 HFPO-DA	86		25 - 150
13C2 10:2 FTS	86		25 - 150

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

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

Lab Sample ID: 500-234885-7 MS

Matrix: Water

Analysis Batch: 688274

Client Sample ID: Station 7

Prep Type: Total/NA

Prep Batch: 686820

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	%Rec
Perfluorobutanoic acid (PFBA)	18	J	200	244		ng/L		113	70 - 130	
Perfluoropentanoic acid (PFPeA)	43		200	243		ng/L		100	70 - 130	
Perfluorohexanoic acid (PFHxA)	52		200	268		ng/L		108	70 - 130	
Perfluoroheptanoic acid (PFHpA)	15		200	230		ng/L		108	70 - 130	
Perfluorooctanoic acid (PFOA)	56		200	260		ng/L		102	70 - 130	
Perfluorononanoic acid (PFNA)	3.1	J	200	215		ng/L		106	70 - 130	
Perfluorodecanoic acid (PFDA)	<1.6		200	204		ng/L		102	70 - 130	
Perfluoroundecanoic acid (PFUnA)	<5.5		200	207		ng/L		103	70 - 130	
Perfluorododecanoic acid (PFDoA)	<2.8		200	200		ng/L		100	70 - 130	
Perfluorotridecanoic acid (PFTrDA)	<6.5		200	217		ng/L		108	70 - 130	
Perfluorotetradecanoic acid (PFTeA)	<3.7		200	216		ng/L		108	70 - 130	
Perfluorobutanesulfonic acid (PFBS)	22		178	215		ng/L		109	70 - 130	
Perfluoropentanesulfonic acid (PFPeS)	33		188	222		ng/L		101	70 - 130	
Perfluorohexanesulfonic acid (PFHxS)	240		182	433		ng/L		108	70 - 130	
Perfluoroheptanesulfonic acid (PFHpS)	7.5	J	191	202		ng/L		102	70 - 130	
Perfluorooctanesulfonic acid (PFOS)	400		186	588		ng/L		99	70 - 130	
Perfluorononanesulfonic acid (PFNS)	<1.9		192	197		ng/L		102	70 - 130	
Perfluorodecanesulfonic acid (PFDS)	<1.6		193	185		ng/L		96	70 - 130	
Perfluorododecanesulfonic acid (PFDoS)	<4.9		194	192		ng/L		99	70 - 130	
Perfluorooctanesulfonamide (FOSA)	<4.9		200	205		ng/L		103	70 - 130	
NEtFOSA	<4.4		200	204		ng/L		102	70 - 130	
NMeFOSA	<2.2		200	217		ng/L		108	70 - 130	
NMeFOSAA	<6.0		200	231		ng/L		115	70 - 130	
NEtFOSAA	<6.5		200	219		ng/L		109	70 - 130	
NMeFOSE	<7.0		200	203		ng/L		101	70 - 130	
NEtFOSE	<4.3		200	202		ng/L		101	70 - 130	
4:2 FTS	1.2	J	188	195		ng/L		104	70 - 130	
6:2 FTS	61		190	270		ng/L		110	70 - 130	
8:2 FTS	3.2	J	192	199		ng/L		102	70 - 130	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		189	219		ng/L		116	70 - 130	
HFPO-DA (GenX)	<7.5		200	209		ng/L		104	70 - 130	
9CI-PF3ONS	<1.2		187	184		ng/L		99	70 - 130	
11CI-PF3OUdS	<1.6		189	180		ng/L		96	70 - 130	
		MS MS								
Isotope Dilution	%Recovery	Qualifier	Limits							
13C4 PFBA	95		25 - 150							
13C5 PFPeA	101		25 - 150							
13C2 PFHxA	93		25 - 150							

Eurofins Chicago



QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

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

Lab Sample ID: 500-234885-7 MS
Matrix: Water
Analysis Batch: 688274

Client Sample ID: Station 7
Prep Type: Total/NA
Prep Batch: 686820

<i>Isotope Dilution</i>	<i>MS</i>	<i>MS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFHpA	96		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	100		25 - 150
13C2 PFDA	102		25 - 150
13C2 PFUnA	106		25 - 150
13C2 PFDaA	104		25 - 150
13C2 PFTeDA	98		25 - 150
13C3 PFBS	100		25 - 150
18O2 PFHxS	99		25 - 150
13C4 PFOS	98		25 - 150
13C8 FOSA	118		10 - 150
d3-NMeFOSAA	126		25 - 150
d5-NEtFOSAA	138		25 - 150
d-N-MeFOSA-M	93		10 - 150
d-N-EtFOSA-M	92		10 - 150
d7-N-MeFOSE-M	86		10 - 150
d9-N-EtFOSE-M	85		10 - 150
M2-4:2 FTS	85		25 - 150
M2-6:2 FTS	77		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	94		25 - 150
13C2 10:2 FTS	112		25 - 150

Lab Sample ID: 500-234885-7 MSD
Matrix: Water
Analysis Batch: 688274

Client Sample ID: Station 7
Prep Type: Total/NA
Prep Batch: 686820

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MSD</i>	<i>MSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>RPD</i>	<i>RPD</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>		<i>Limit</i>
Perfluorobutanoic acid (PFBA)	18	J	200	242		ng/L		112	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	43		200	258		ng/L		108	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	52		200	277		ng/L		112	70 - 130	3	30
Perfluoroheptanoic acid (PFHpA)	15		200	227		ng/L		106	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	56		200	256		ng/L		100	70 - 130	2	30
Perfluorononanoic acid (PFNA)	3.1	J	200	216		ng/L		106	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<1.6		200	201		ng/L		100	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<5.5		200	206		ng/L		103	70 - 130	0	30
Perfluorododecanoic acid (PFDaA)	<2.8		200	207		ng/L		104	70 - 130	4	30
Perfluorotridecanoic acid (PFTTrDA)	<6.5		200	227		ng/L		113	70 - 130	5	30
Perfluorotetradecanoic acid (PFTeA)	<3.7		200	212		ng/L		106	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	22		178	209		ng/L		105	70 - 130	3	30
Perfluoropentanesulfonic acid (PFPeS)	33		188	233		ng/L		107	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	240		182	418		ng/L		99	70 - 130	4	30
Perfluoroheptanesulfonic acid (PFHpS)	7.5	J	191	192		ng/L		97	70 - 130	5	30

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

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

Lab Sample ID: 500-234885-7 MSD

Matrix: Water

Analysis Batch: 688274

Client Sample ID: Station 7

Prep Type: Total/NA

Prep Batch: 686820

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	400		186	540		ng/L		73	70 - 130	9	30
Perfluorononanesulfonic acid (PFNS)	<1.9		192	193		ng/L		100	70 - 130	2	30
Perfluorodecanesulfonic acid (PFDS)	<1.6		193	187		ng/L		97	70 - 130	1	30
Perfluorododecanesulfonic acid (PFDoS)	<4.9		194	177		ng/L		91	70 - 130	8	30
Perfluorooctanesulfonamide (FOSA)	<4.9		200	199		ng/L		99	70 - 130	3	30
NEtFOSA	<4.4		200	211		ng/L		106	70 - 130	4	30
NMeFOSA	<2.2		200	214		ng/L		107	70 - 130	1	30
NMeFOSAA	<6.0		200	213		ng/L		106	70 - 130	8	30
NEtFOSAA	<6.5		200	197		ng/L		99	70 - 130	10	30
NMeFOSE	<7.0		200	213		ng/L		106	70 - 130	5	30
NEtFOSE	<4.3		200	207		ng/L		103	70 - 130	3	30
4:2 FTS	1.2	J	188	191		ng/L		102	70 - 130	2	30
6:2 FTS	61		190	240		ng/L		94	70 - 130	12	30
8:2 FTS	3.2	J	192	185		ng/L		95	70 - 130	7	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		189	206		ng/L		109	70 - 130	6	30
HFPO-DA (GenX)	<7.5		200	207		ng/L		103	70 - 130	1	30
9Cl-PF3ONS	<1.2		187	166		ng/L		89	70 - 130	11	30
11Cl-PF3OUdS	<1.6		189	164		ng/L		87	70 - 130	9	30

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	95		25 - 150
13C5 PFPeA	99		25 - 150
13C2 PFHxA	95		25 - 150
13C4 PFHpA	98		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	98		25 - 150
13C2 PFDA	98		25 - 150
13C2 PFUnA	102		25 - 150
13C2 PFDoA	103		25 - 150
13C2 PFTeDA	96		25 - 150
13C3 PFBS	94		25 - 150
18O2 PFHxS	96		25 - 150
13C4 PFOS	102		25 - 150
13C8 FOSA	117		10 - 150
d3-NMeFOSAA	125		25 - 150
d5-NEtFOSAA	145		25 - 150
d-N-MeFOSA-M	94		10 - 150
d-N-EtFOSA-M	91		10 - 150
d7-N-MeFOSE-M	85		10 - 150
d9-N-EtFOSE-M	83		10 - 150
M2-4:2 FTS	85		25 - 150
M2-6:2 FTS	79		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	98		25 - 150

QC Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

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

Lab Sample ID: 500-234885-7 MSD
Matrix: Water
Analysis Batch: 688274

Client Sample ID: Station 7
Prep Type: Total/NA
Prep Batch: 686820

<i>Isotope Dilution</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C2 10:2 FTS	112		25 - 150

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

Lab Chronicle

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-234885-1

Date Collected: 06/06/23 07:50

Matrix: Water

Date Received: 06/07/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)	DL	5	687910	K1S	EET SAC	07/04/23 13:35
Total/NA	Prep	3535			686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)		1	687910	K1S	EET SAC	07/04/23 14:53

Client Sample ID: Outfall 21

Lab Sample ID: 500-234885-2

Date Collected: 06/06/23 08:10

Matrix: Water

Date Received: 06/07/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)		100	687637	C1P	EET SAC	07/01/23 07:48

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-234885-3

Date Collected: 06/06/23 08:15

Matrix: Water

Date Received: 06/07/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)		100	687637	C1P	EET SAC	07/01/23 08:22

Client Sample ID: Station 11

Lab Sample ID: 500-234885-4

Date Collected: 06/06/23 09:35

Matrix: Water

Date Received: 06/07/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)		1	687910	K1S	EET SAC	07/04/23 12:28

Client Sample ID: Station 10

Lab Sample ID: 500-234885-5

Date Collected: 06/06/23 09:20

Matrix: Water

Date Received: 06/07/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)	DL	10	687910	K1S	EET SAC	07/04/23 13:46
Total/NA	Prep	3535			686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)		1	687910	K1S	EET SAC	07/04/23 15:04

Client Sample ID: Station 4A

Lab Sample ID: 500-234885-6

Date Collected: 06/06/23 11:00

Matrix: Water

Date Received: 06/07/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)		1	687910	K1S	EET SAC	07/04/23 12:39

Lab Chronicle

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Client Sample ID: Station 7

Date Collected: 06/06/23 10:20

Date Received: 06/07/23 09:20

Lab Sample ID: 500-234885-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)		1	688274	S1M	EET SAC	07/05/23 20:03

Client Sample ID: Field Blank

Date Collected: 06/06/23 09:30

Date Received: 06/07/23 09:20

Lab Sample ID: 500-234885-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			686820	GAT	EET SAC	06/29/23 04:46
Total/NA	Analysis	537 (modified)		1	687910	K1S	EET SAC	07/04/23 12:50

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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

Client Information Client Contact: Ryan Matzuk / Eric Oelkers Company: SCS Engineers Address: 2830 Dairy Drive City: Madison State: WI Zip: 53718-6751 Phone: 25221127.00 Email: RMatzuk@scsengineers.com / Eoelkers@scsengineers.com		Lab File: Fredrick, Sandie E-Mail: Sandra.Fredrick@et.eurofins.com PWSID:		Carrier Tracking No(s): 500-113244-46810.1 Page: Page 1 of 1 State of Origin:		CCC No: 500-113244-46810.1 Job #:							
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 25221127.00 WO #:				Analysis Requested				Preservation Codes: A - HCL B - NBOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Arsenic H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:					
Project #: 50021708 SSO#:				Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No PFC, IDA, WI - PFA's, Standard List (33 analytes)				Preservation Codes: M - Hexane N - None O - ASNaCl P - Na2CO3 Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)					
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC, IDA, WI - PFA's, Standard List (33 analytes)	Total Number of Containers	Special Instructions/Note:
Outfall 3a	6/6/23	750	G	Water			G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Outfall 2i		810		Water				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Outfall 2i Dup		815		Water				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Station 1i		935		Water				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Station 1o		920		Water				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Station 4A		1100		Water				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Station 7		1020		Water				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Field Blank		930		Water				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
				Water				Water					
				Water				Water					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Ryan Matzuk SCS Date/Time: 6/16/23 1230 Company: SCS
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: 1-2

Special Instructions/QC Requirements: _____
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Method of Shipment: _____
 Received by: _____ Date/Time: 6/17/23 920 Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-234885-1

SDG Number:

Login Number: 234885

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 06/07/23 06:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing
TestAmerica

Sacramento
Sample Receiving Notes



500-234885 Field Sheet

Tracking #: 6483 4233 3/53

Job: _____

SO / PC / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

<p>Therm. ID: <u>610</u> Corr. Factor: (+/-) _____ °C</p> <p>Ice <input checked="" type="checkbox"/> Wet _____ Gel _____ Other _____</p> <p>Cooler Custody Seal: <u> </u></p> <p>Cooler ID: <u> </u></p> <p>Temp Observed: <u>1.2</u> °C Corrected: <u>1.2</u> °C From: Temp Blank <input type="checkbox"/> Sample <input type="checkbox"/></p> <p>Opening/Processing The Shipment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">NA</th> </tr> </thead> <tbody> <tr> <td>Cooler compromised/tampered with?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Cooler Temperature is acceptable?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Frozen samples show signs of thaw?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>Initials: <u>JF</u> Date: <u>6/7/23</u></p> <p>Unpacking/Labeling The Samples</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">NA</th> </tr> </thead> <tbody> <tr> <td>COC is complete w/o discrepancies?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Samples compromised/tampered with?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Containers are not broken or leaking?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sample custody seal?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Sample containers have legible labels?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sample date/times are provided?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Appropriate containers are used?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sample bottles are completely filled?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sample preservatives verified?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Is the Field Sampler's name on COC?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Samples require splitting/compositing?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Samples w/o discrepancies?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Zero headspace?*</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Alkalinity has no headspace?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Perchlorate has headspace? (Methods 314, 331, 6850)</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Multiphasic samples are not present?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table> <p><small>*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")</small></p> <p>Initials: <u>JF</u> Date: <u>6/7/23</u></p>		Yes	No	NA	Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Yes	No	NA	COC is complete w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Samples require splitting/compositing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____</p> <p>Trizma Lot #(s): _____ _____ _____</p> <p>Login Completion</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">NA</th> </tr> </thead> <tbody> <tr> <td>Receipt Temperature on COC?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Samples received within hold time?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>NCM Filed?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Log Release checked in TALS?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table> <p>Initials: <u>JF</u> Date: <u>6/7/23</u></p>		Yes	No	NA	Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Yes	No	NA																																																																																																						
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																						
	Yes	No	NA																																																																																																						
COC is complete w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																						
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																						
Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																						
Samples require splitting/compositing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																						
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																						
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																						
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																						
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
	Yes	No	NA																																																																																																						
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																						
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						

Isotope Dilution Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-234885-1 - DL	Outfall 32								
500-234885-1	Outfall 32	84	103	100	99	95	91	91	82
500-234885-2	Outfall 21	98	104	91	100	100	100	92	77
500-234885-3	Outfall 21 DUP	104	92	89	88	86	96	90	84
500-234885-4	Station 11	95	99	100	99	97	105	100	102
500-234885-5 - DL	Station 10								
500-234885-5	Station 10	61	64	63	61	60	62	60	55
500-234885-6	Station 4A	100	108	104	103	101	104	102	108
500-234885-7	Station 7	95	95	96	105	94	101	98	103
500-234885-7 MS	Station 7	95	101	93	96	97	100	102	106
500-234885-7 MSD	Station 7	95	99	95	98	97	98	98	102
500-234885-8	Field Blank	94	96	92	98	100	95	100	93
LCS 320-686820/2-A	Lab Control Sample	95	101	93	99	92	95	93	95
MB 320-686820/1-A	Method Blank	98	98	91	99	97	96	98	94

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-234885-1 - DL	Outfall 32					96			
500-234885-1	Outfall 32	78	67	103	98	92	111	101	110
500-234885-2	Outfall 21	97	84	92	101	97	109	102	105
500-234885-3	Outfall 21 DUP	75	64	85	107	114	110	115	127
500-234885-4	Station 11	103	93	98	100	101	112	119	138
500-234885-5 - DL	Station 10				57	53			
500-234885-5	Station 10	47	46	62		59	64	67	77
500-234885-6	Station 4A	102	104	101	100	101	127	130	148
500-234885-7	Station 7	102	101	93	100	101	114	126	147
500-234885-7 MS	Station 7	104	98	100	99	98	118	126	138
500-234885-7 MSD	Station 7	103	96	94	96	102	117	125	145
500-234885-8	Field Blank	102	99	100	100	101	115	124	134
LCS 320-686820/2-A	Lab Control Sample	93	86	94	95	93	99	117	123
MB 320-686820/1-A	Method Blank	95	98	90	92	93	104	123	132

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-234885-1 - DL	Outfall 32								
500-234885-1	Outfall 32	76	76	69	69	98	82	82	93
500-234885-2	Outfall 21	68	89	58	77	90	91	110	89
500-234885-3	Outfall 21 DUP	58	64	53	74	67	115	68	101
500-234885-4	Station 11	93	85	88	82	102	81	87	92
500-234885-5 - DL	Station 10								
500-234885-5	Station 10	35	35	32	33	53	48	57	59
500-234885-6	Station 4A	110	103	92	92	87	83	93	96
500-234885-7	Station 7	91	91	86	86	88	78	91	97
500-234885-7 MS	Station 7	93	92	86	85	85	77	88	94
500-234885-7 MSD	Station 7	94	91	85	83	85	79	88	98
500-234885-8	Field Blank	88	90	87	87	89	80	87	86
LCS 320-686820/2-A	Lab Control Sample	82	83	85	85	82	76	82	86
MB 320-686820/1-A	Method Blank	87	87	91	91	88	80	84	83

Isotope Dilution Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-1

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-234885-1 - DL	Outfall 32	
500-234885-1	Outfall 32	78
500-234885-2	Outfall 21	88
500-234885-3	Outfall 21 DUP	72
500-234885-4	Station 11	107
500-234885-5 - DL	Station 10	
500-234885-5	Station 10	51
500-234885-6	Station 4A	107
500-234885-7	Station 7	110
500-234885-7 MS	Station 7	112
500-234885-7 MSD	Station 7	112
500-234885-8	Field Blank	102
LCS 320-686820/2-A	Lab Control Sample	86
MB 320-686820/1-A	Method Blank	86

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- dMeFOSA = d-N-MeFOSA-M
- dEtFOSA = d-N-EtFOSA-M
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- HFPODA = 13C3 HFPO-DA
- M102FTS = 13C2 10:2 FTS





ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Eric Oelkers
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Generated 7/19/2023 5:20:05 PM

JOB DESCRIPTION

Dane County Airport 25221127.00

JOB NUMBER

500-234885-2

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
7/19/2023 5:20:05 PM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	17
Certification Summary	18
Chain of Custody	19
Receipt Checklists	20
Isotope Dilution Summary	21

Case Narrative

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Job ID: 500-234885-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-234885-2

Receipt

The samples were received on 6/7/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

Reanalysis of sample 6 at client request.

LCMS

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-689766.

preparation batch 320-689766

Method: 3535 PFC-W

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-689766 were observed to have floating particulates present in the sample bottle. 500-234885-B-6

preparation batch 320-689766

Method: 3535 PFC-W

Matrix: Aqueous

Method 3535: The following sample(s) was prepared outside of preparation holding time due to activation past holding time. Station 4A (500-234885-6).

preparation batch 320-689766

Method: 3535 PFC-W

Matrix: Aqueous

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

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Client Sample ID: Station 4A

Lab Sample ID: 500-234885-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	16	H	4.0	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	35	H	1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	43	H	1.6	0.47	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	15	H	1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	45	H	1.6	0.69	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.7	H	1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.64	J H	1.6	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	20	H	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	27	H	1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	190	H	1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	6.1	H	1.6	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	230	H	1.6	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.94	J H	1.6	0.79	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.85	J H	1.6	0.19	ng/L	1		537 (modified)	Total/NA
6:2 FTS	51	H	4.0	2.0	ng/L	1		537 (modified)	Total/NA
8:2 FTS	1.1	J H	1.6	0.37	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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

Sample Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
500-234885-6	Station 4A	Water	06/06/23 11:00	06/07/23 09:20

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Client Sample ID: Station 4A

Lab Sample ID: 500-234885-6

Date Collected: 06/06/23 11:00

Matrix: Water

Date Received: 06/07/23 09:20

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	16	H	4.0	1.9	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluoropentanoic acid (PFPeA)	35	H	1.6	0.40	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorohexanoic acid (PFHxA)	43	H	1.6	0.47	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluoroheptanoic acid (PFHpA)	15	H	1.6	0.20	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorooctanoic acid (PFOA)	45	H	1.6	0.69	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorononanoic acid (PFNA)	2.7	H	1.6	0.22	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorodecanoic acid (PFDA)	0.64	J H	1.6	0.25	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluoroundecanoic acid (PFUnA)	<0.89	H	1.6	0.89	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorododecanoic acid (PFDoA)	<0.44	H	1.6	0.44	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorotridecanoic acid (PFTrDA)	<1.1	H	1.6	1.1	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorotetradecanoic acid (PFTeA)	<0.59	H	1.6	0.59	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorobutanesulfonic acid (PFBS)	20	H	1.6	0.16	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluoropentanesulfonic acid (PFPeS)	27	H	1.6	0.24	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorohexanesulfonic acid (PFHxS)	190	H	1.6	0.46	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluoroheptanesulfonic acid (PFHpS)	6.1	H	1.6	0.15	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorooctanesulfonic acid (PFOS)	230	H	1.6	0.44	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorononanesulfonic acid (PFNS)	<0.30	H	1.6	0.30	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorodecanesulfonic acid (PFDS)	<0.26	H	1.6	0.26	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorododecanesulfonic acid (PFDoS)	<0.78	H	1.6	0.78	ng/L		07/11/23 19:01	07/14/23 23:46	1
Perfluorooctanesulfonamide (FOSA)	0.94	J H	1.6	0.79	ng/L		07/11/23 19:01	07/14/23 23:46	1
NEtFOSA	<0.70	H	1.6	0.70	ng/L		07/11/23 19:01	07/14/23 23:46	1
NMeFOSA	<0.35	H	1.6	0.35	ng/L		07/11/23 19:01	07/14/23 23:46	1
NMeFOSAA	<0.97	H	4.0	0.97	ng/L		07/11/23 19:01	07/14/23 23:46	1
NEtFOSAA	<1.1	H	4.0	1.1	ng/L		07/11/23 19:01	07/14/23 23:46	1
NMeFOSE	<1.1	H	3.2	1.1	ng/L		07/11/23 19:01	07/14/23 23:46	1
NEtFOSE	<0.69	H	1.6	0.69	ng/L		07/11/23 19:01	07/14/23 23:46	1
4:2 FTS	0.85	J H	1.6	0.19	ng/L		07/11/23 19:01	07/14/23 23:46	1
6:2 FTS	51	H	4.0	2.0	ng/L		07/11/23 19:01	07/14/23 23:46	1
8:2 FTS	1.1	J H	1.6	0.37	ng/L		07/11/23 19:01	07/14/23 23:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.32	H	1.6	0.32	ng/L		07/11/23 19:01	07/14/23 23:46	1
HFPO-DA (GenX)	<1.2	H	3.2	1.2	ng/L		07/11/23 19:01	07/14/23 23:46	1
9Cl-PF3ONS	<0.19	H	1.6	0.19	ng/L		07/11/23 19:01	07/14/23 23:46	1
11Cl-PF3OUdS	<0.26	H	1.6	0.26	ng/L		07/11/23 19:01	07/14/23 23:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	54		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C5 PFPeA	62		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C2 PFHxA	67		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C4 PFHpA	68		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C4 PFOA	70		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C5 PFNA	70		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C2 PFDA	72		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C2 PFUnA	71		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C2 PFDoA	65		25 - 150	07/11/23 19:01	07/14/23 23:46	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Client Sample ID: Station 4A

Lab Sample ID: 500-234885-6

Date Collected: 06/06/23 11:00

Matrix: Water

Date Received: 06/07/23 09:20

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	55		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C3 PFBS	66		25 - 150	07/11/23 19:01	07/14/23 23:46	1
18O2 PFHxS	74		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C4 PFOS	72		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C8 FOSA	75		10 - 150	07/11/23 19:01	07/14/23 23:46	1
d3-NMeFOSAA	71		25 - 150	07/11/23 19:01	07/14/23 23:46	1
d5-NEtFOSAA	86		25 - 150	07/11/23 19:01	07/14/23 23:46	1
d-N-MeFOSA-M	62		10 - 150	07/11/23 19:01	07/14/23 23:46	1
d-N-EtFOSA-M	57		10 - 150	07/11/23 19:01	07/14/23 23:46	1
d7-N-MeFOSE-M	58		10 - 150	07/11/23 19:01	07/14/23 23:46	1
d9-N-EtFOSE-M	55		10 - 150	07/11/23 19:01	07/14/23 23:46	1
M2-4:2 FTS	80		25 - 150	07/11/23 19:01	07/14/23 23:46	1
M2-6:2 FTS	79		25 - 150	07/11/23 19:01	07/14/23 23:46	1
M2-8:2 FTS	82		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C3 HFPO-DA	56		25 - 150	07/11/23 19:01	07/14/23 23:46	1
13C2 10:2 FTS	89		25 - 150	07/11/23 19:01	07/14/23 23:46	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Qualifiers

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

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

QC Association Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

LCMS

Prep Batch: 689766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234885-6	Station 4A	Total/NA	Water	3535	
MB 320-689766/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-689766/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-689766/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 690635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234885-6	Station 4A	Total/NA	Water	537 (modified)	689766
MB 320-689766/1-A	Method Blank	Total/NA	Water	537 (modified)	689766
LCS 320-689766/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	689766
LCSD 320-689766/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	689766

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-689766/1-A
Matrix: Water
Analysis Batch: 690635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689766

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		07/11/23 19:01	07/14/23 23:15	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		07/11/23 19:01	07/14/23 23:15	1
NEtFOSA	<0.87		2.0	0.87	ng/L		07/11/23 19:01	07/14/23 23:15	1
NMeFOSA	<0.43		2.0	0.43	ng/L		07/11/23 19:01	07/14/23 23:15	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		07/11/23 19:01	07/14/23 23:15	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		07/11/23 19:01	07/14/23 23:15	1
NMeFOSE	<1.4		4.0	1.4	ng/L		07/11/23 19:01	07/14/23 23:15	1
NEtFOSE	<0.85		2.0	0.85	ng/L		07/11/23 19:01	07/14/23 23:15	1
4:2 FTS	<0.24		2.0	0.24	ng/L		07/11/23 19:01	07/14/23 23:15	1
6:2 FTS	<2.5		5.0	2.5	ng/L		07/11/23 19:01	07/14/23 23:15	1
8:2 FTS	<0.46		2.0	0.46	ng/L		07/11/23 19:01	07/14/23 23:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		07/11/23 19:01	07/14/23 23:15	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		07/11/23 19:01	07/14/23 23:15	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		07/11/23 19:01	07/14/23 23:15	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		07/11/23 19:01	07/14/23 23:15	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	85		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C5 PFPeA	86		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C2 PFHxA	86		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C4 PFHpA	85		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C4 PFOA	88		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C5 PFNA	91		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C2 PFDA	95		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C2 PFUnA	85		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C2 PFDoA	87		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C2 PFTeDA	89		25 - 150	07/11/23 19:01	07/14/23 23:15	1

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

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

Lab Sample ID: MB 320-689766/1-A
Matrix: Water
Analysis Batch: 690635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689766

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	76		25 - 150	07/11/23 19:01	07/14/23 23:15	1
18O2 PFHxS	83		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C4 PFOS	84		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C8 FOSA	88		10 - 150	07/11/23 19:01	07/14/23 23:15	1
d3-NMeFOSAA	91		25 - 150	07/11/23 19:01	07/14/23 23:15	1
d5-NEtFOSAA	90		25 - 150	07/11/23 19:01	07/14/23 23:15	1
d-N-MeFOSA-M	76		10 - 150	07/11/23 19:01	07/14/23 23:15	1
d-N-EtFOSA-M	76		10 - 150	07/11/23 19:01	07/14/23 23:15	1
d7-N-MeFOSE-M	86		10 - 150	07/11/23 19:01	07/14/23 23:15	1
d9-N-EtFOSE-M	82		10 - 150	07/11/23 19:01	07/14/23 23:15	1
M2-4:2 FTS	94		25 - 150	07/11/23 19:01	07/14/23 23:15	1
M2-6:2 FTS	75		25 - 150	07/11/23 19:01	07/14/23 23:15	1
M2-8:2 FTS	86		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C3 HFPO-DA	82		25 - 150	07/11/23 19:01	07/14/23 23:15	1
13C2 10:2 FTS	90		25 - 150	07/11/23 19:01	07/14/23 23:15	1

Lab Sample ID: LCS 320-689766/2-A
Matrix: Water
Analysis Batch: 690635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	41.2		ng/L		103	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	45.0		ng/L		112	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	44.4		ng/L		111	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	42.2		ng/L		105	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	43.2		ng/L		108	60 - 135
Perfluorononanoic acid (PFNA)	40.0	42.6		ng/L		106	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	41.9		ng/L		105	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	45.8		ng/L		114	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.6		ng/L		109	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	42.0		ng/L		105	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	42.3		ng/L		106	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	39.2		ng/L		110	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	42.5		ng/L		113	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.5		ng/L		105	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	39.4		ng/L		103	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	39.4		ng/L		106	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	40.9		ng/L		106	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	42.1		ng/L		109	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	37.3		ng/L		96	60 - 135

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

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

Lab Sample ID: LCS 320-689766/2-A
Matrix: Water
Analysis Batch: 690635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	41.7		ng/L		104	60 - 135
NEtFOSA	40.0	43.5		ng/L		109	60 - 135
NMeFOSA	40.0	41.6		ng/L		104	60 - 135
NMeFOSAA	40.0	43.9		ng/L		110	60 - 135
NEtFOSAA	40.0	41.2		ng/L		103	60 - 135
NMeFOSE	40.0	42.1		ng/L		105	60 - 135
NEtFOSE	40.0	43.6		ng/L		109	60 - 135
4:2 FTS	37.5	37.9		ng/L		101	60 - 135
6:2 FTS	38.1	42.2		ng/L		111	60 - 135
8:2 FTS	38.4	39.8		ng/L		104	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	44.1		ng/L		116	60 - 135
HFPO-DA (GenX)	40.0	44.9		ng/L		112	60 - 135
9Cl-PF3ONS	37.4	41.9		ng/L		112	60 - 135
11Cl-PF3OUdS	37.8	41.5		ng/L		110	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	83		25 - 150
13C5 PFPeA	77		25 - 150
13C2 PFHxA	81		25 - 150
13C4 PFHpA	81		25 - 150
13C4 PFOA	86		25 - 150
13C5 PFNA	84		25 - 150
13C2 PFDA	88		25 - 150
13C2 PFUnA	79		25 - 150
13C2 PFDoA	88		25 - 150
13C2 PFTeDA	81		25 - 150
13C3 PFBS	75		25 - 150
18O2 PFHxS	76		25 - 150
13C4 PFOS	78		25 - 150
13C8 FOSA	79		10 - 150
d3-NMeFOSAA	78		25 - 150
d5-NEtFOSAA	87		25 - 150
d-N-MeFOSA-M	72		10 - 150
d-N-EtFOSA-M	71		10 - 150
d7-N-MeFOSE-M	79		10 - 150
d9-N-EtFOSE-M	73		10 - 150
M2-4:2 FTS	89		25 - 150
M2-6:2 FTS	81		25 - 150
M2-8:2 FTS	82		25 - 150
13C3 HFPO-DA	75		25 - 150
13C2 10:2 FTS	82		25 - 150

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

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

Lab Sample ID: LCSD 320-689766/3-A

Matrix: Water

Analysis Batch: 690635

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 689766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	40.5		ng/L		101	60 - 135	2		30
Perfluoropentanoic acid (PFPeA)	40.0	41.9		ng/L		105	60 - 135	7		30
Perfluorohexanoic acid (PFHxA)	40.0	40.5		ng/L		101	60 - 135	9		30
Perfluoroheptanoic acid (PFHpA)	40.0	43.7		ng/L		109	60 - 135	4		30
Perfluorooctanoic acid (PFOA)	40.0	41.7		ng/L		104	60 - 135	4		30
Perfluorononanoic acid (PFNA)	40.0	42.5		ng/L		106	60 - 135	0		30
Perfluorodecanoic acid (PFDA)	40.0	41.9		ng/L		105	60 - 135	0		30
Perfluoroundecanoic acid (PFUnA)	40.0	40.8		ng/L		102	60 - 135	11		30
Perfluorododecanoic acid (PFDoA)	40.0	42.3		ng/L		106	60 - 135	3		30
Perfluorotridecanoic acid (PFTTrDA)	40.0	40.7		ng/L		102	60 - 135	3		30
Perfluorotetradecanoic acid (PFTeA)	40.0	39.7		ng/L		99	60 - 135	6		30
Perfluorobutanesulfonic acid (PFBS)	35.5	37.2		ng/L		105	60 - 135	5		30
Perfluoropentanesulfonic acid (PFPeS)	37.6	41.6		ng/L		111	60 - 135	2		30
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.0		ng/L		104	60 - 135	1		30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.0		ng/L		99	60 - 135	4		30
Perfluorooctanesulfonic acid (PFOS)	37.2	38.8		ng/L		104	60 - 135	1		30
Perfluorononanesulfonic acid (PFNS)	38.5	39.3		ng/L		102	60 - 135	4		30
Perfluorodecanesulfonic acid (PFDS)	38.6	40.9		ng/L		106	60 - 135	3		30
Perfluorododecanesulfonic acid (PFDoS)	38.8	37.9		ng/L		98	60 - 135	1		30
Perfluorooctanesulfonamide (FOSA)	40.0	41.7		ng/L		104	60 - 135	0		30
NEtFOSA	40.0	43.4		ng/L		109	60 - 135	0		30
NMeFOSA	40.0	39.0		ng/L		97	60 - 135	7		30
NMeFOSAA	40.0	40.8		ng/L		102	60 - 135	7		30
NEtFOSAA	40.0	41.4		ng/L		103	60 - 135	0		30
NMeFOSE	40.0	41.2		ng/L		103	60 - 135	2		30
NEtFOSE	40.0	41.4		ng/L		103	60 - 135	5		30
4:2 FTS	37.5	36.2		ng/L		96	60 - 135	5		30
6:2 FTS	38.1	41.5		ng/L		109	60 - 135	2		30
8:2 FTS	38.4	40.1		ng/L		105	60 - 135	1		30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	41.3		ng/L		109	60 - 135	6		30
HFPO-DA (GenX)	40.0	41.9		ng/L		105	60 - 135	7		30
9CI-PF3ONS	37.4	39.9		ng/L		107	60 - 135	5		30
11CI-PF3OUdS	37.8	39.8		ng/L		105	60 - 135	4		30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	82		25 - 150
13C5 PFPeA	79		25 - 150
13C2 PFHxA	83		25 - 150

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

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

Lab Sample ID: LCSD 320-689766/3-A
 Matrix: Water
 Analysis Batch: 690635

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 689766

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFHpA	80		25 - 150
13C4 PFOA	85		25 - 150
13C5 PFNA	84		25 - 150
13C2 PFDA	88		25 - 150
13C2 PFUnA	86		25 - 150
13C2 PFDoA	89		25 - 150
13C2 PFTeDA	85		25 - 150
13C3 PFBS	78		25 - 150
18O2 PFHxS	80		25 - 150
13C4 PFOS	81		25 - 150
13C8 FOSA	83		10 - 150
d3-NMeFOSAA	84		25 - 150
d5-NEtFOSAA	89		25 - 150
d-N-MeFOSA-M	75		10 - 150
d-N-EtFOSA-M	76		10 - 150
d7-N-MeFOSE-M	77		10 - 150
d9-N-EtFOSE-M	79		10 - 150
M2-4:2 FTS	92		25 - 150
M2-6:2 FTS	76		25 - 150
M2-8:2 FTS	84		25 - 150
13C3 HFPO-DA	79		25 - 150
13C2 10:2 FTS	92		25 - 150



Lab Chronicle

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Client Sample ID: Station 4A

Lab Sample ID: 500-234885-6

Date Collected: 06/06/23 11:00

Matrix: Water

Date Received: 06/07/23 09:20

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	3535			689766	ERR	EET SAC	07/11/23 19:01
Total/NA	Analysis	537 (modified)		1	690635	S1C	EET SAC	07/14/23 23:46

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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

Chain of Custody Record



Client Information		Lab File: Fredrick, Sandie		Carrier Tracking No(s):	
Sampler: Ryan Matzuk		E-Mail: Sandra.Fredrick@et.eurofins.com		500-113244-46810.1	
Client Contact: Ryan Matzuk / Eric Oelkers		Phone: 608 400 9577		Page: Page 1 of 1	
Company: SCS Engineers		Address: 2830 Dairy Drive		Job #:	
City: Madison		State, Zip: WI, 53718-6751		Preservation Codes:	
Phone: 537-18-6751		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		M - Hexane N - None O - ASNaCl2 P - Na2CO3 Q - Nitric Acid R - NaHSO4 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
Email: RMatzuk@scsengineers.com / Eoelkers@scsengineers.com		PO #: 25221127.00		Other:	
Project Name: Dane County Airport - 25221127.00		WQ #:		Total Number of containers	
Site: 50021708		SSOW#:		Special Instructions/Note:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waterfall, BT=tissue, Ash)	Preservation Code	Analysis Requested		Special Instructions/Note
						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	
Outfall 3a	6/6/23	750	G	Water		X	X	
Outfall 21		810		Water		X	X	
Outfall 21 Dup		815		Water		X	X	
Station 11		935		Water		X	X	
Station 10		920		Water		X	X	
Station 4A		1100		Water		X	X	
Station 7		1020		Water		X	X	
Field Blank		930		Water		X	X	
				Water				

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: **Ryan Matzuk** Date: **6/6/23** Time: **1230** Company: **SCS**

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No

Custody Seal No. _____ Cooler Temperature(s) °C and Other Remarks: **1-2**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Received by: _____ Date: **6/7/23** Time: **920** Company: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-234885-2

SDG Number:

Login Number: 234885

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 06/07/23 06:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-234885-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-234885-6	Station 4A	54	62	67	68	70	70	72	71
LCS 320-689766/2-A	Lab Control Sample	83	77	81	81	86	84	88	79
LCSD 320-689766/3-A	Lab Control Sample Dup	82	79	83	80	85	84	88	86
MB 320-689766/1-A	Method Blank	85	86	86	85	88	91	95	85

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-234885-6	Station 4A	65	55	66	74	72	75	71	86
LCS 320-689766/2-A	Lab Control Sample	88	81	75	76	78	79	78	87
LCSD 320-689766/3-A	Lab Control Sample Dup	89	85	78	80	81	83	84	89
MB 320-689766/1-A	Method Blank	87	89	76	83	84	88	91	90

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-234885-6	Station 4A	62	57	58	55	80	79	82	56
LCS 320-689766/2-A	Lab Control Sample	72	71	79	73	89	81	82	75
LCSD 320-689766/3-A	Lab Control Sample Dup	75	76	77	79	92	76	84	79
MB 320-689766/1-A	Method Blank	76	76	86	82	94	75	86	82

		M102FTS (25-150)
Lab Sample ID	Client Sample ID	
500-234885-6	Station 4A	89
LCS 320-689766/2-A	Lab Control Sample	82
LCSD 320-689766/3-A	Lab Control Sample Dup	92
MB 320-689766/1-A	Method Blank	90

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- dMeFOSA = d-N-MeFOSA-M
- dEtFOSA = d-N-EtFOSA-M
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS

Isotope Dilution Summary

Client: SCS Engineers

Project/Site: Dane County Airport 25221127.00

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

M102FTS = 13C2 10:2 FTS

Job ID: 500-234885-2

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Eric Oelkers
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Generated 8/3/2023 11:17:21 AM

JOB DESCRIPTION

Dane County Airport 25221127.00

JOB NUMBER

500-236865-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
8/3/2023 11:17:21 AM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	8
Sample Summary	9
Client Sample Results	10
Definitions	26
QC Association	27
QC Sample Results	28
Chronicle	33
Certification Summary	35
Chain of Custody	36
Receipt Checklists	37
Field Data Sheets	38
Isotope Dilution Summary	39

Case Narrative

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Job ID: 500-236865-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-236865-1

Comments

No additional comments.

Receipt

The samples were received on 7/19/2023 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5° C.

LCMS

Method 537 (modified): Results for samples Outfall 21 (500-236865-2) and Outfall 21 DUP (500-236865-3) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Results for samples Outfall 32 (500-236865-1) and Station 11 (500-236865-4) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

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

Organic Prep

Method 3535: The following samples in preparation batch 320-693846 were observed to have floating particulates present in the sample bottles: Outfall 32 (500-236865-1), Outfall 21 (500-236865-2), Outfall 21 DUP (500-236865-3), Station 11 (500-236865-4), Station 10 (500-236865-5), Station 4A (500-236865-7) and Station 7 (500-236865-8).

Method: 3535_PFC_28D

Matrix: Aqueous

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-693846.

Method: 3535_PFC_28D

Matrix: Aqueous

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

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-236865-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	25		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	56		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	59		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	32		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	64		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.9		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.6	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	25		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	35		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	210		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	9.1		1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	2.2		1.9	0.92	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.79	J	1.9	0.22	ng/L	1		537 (modified)	Total/NA
6:2 FTS	54		4.7	2.3	ng/L	1		537 (modified)	Total/NA
8:2 FTS	15		1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	470		9.4	2.5	ng/L	5		537 (modified)	Total/NA

Client Sample ID: Outfall 21

Lab Sample ID: 500-236865-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	250		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	310		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	55		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	6.4		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorononanesulfonic acid (PFNS)	7.5		1.9	0.35	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	14		1.9	0.92	ng/L	1		537 (modified)	Total/NA
4:2 FTS	20		1.9	0.22	ng/L	1		537 (modified)	Total/NA
8:2 FTS	240		1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1200		190	46	ng/L	100		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1200		190	54	ng/L	100		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	800		190	80	ng/L	100		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS) - DL	740		190	19	ng/L	100		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS) - DL	1200		190	28	ng/L	100		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	8500		190	53	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS) - DL	270		190	18	ng/L	100		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	14000		190	51	ng/L	100		537 (modified)	Total/NA
6:2 FTS - DL	1900		470	230	ng/L	100		537 (modified)	Total/NA

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-236865-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	260		4.9	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	310		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	55		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	6.2		2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorononanesulfonic acid (PFNS)	6.9		2.0	0.36	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Outfall 21 DUP (Continued)

Lab Sample ID: 500-236865-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonamide (FOSA)	15		2.0	0.96	ng/L	1		537 (modified)	Total/NA
4:2 FTS	21		2.0	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	210		2.0	0.45	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1100		200	48	ng/L	100		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1200		200	57	ng/L	100		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	680		200	84	ng/L	100		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS) - DL	650		200	20	ng/L	100		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS) - DL	1000		200	30	ng/L	100		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	7800		200	56	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS) - DL	270		200	19	ng/L	100		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	13000		200	53	ng/L	100		537 (modified)	Total/NA
6:2 FTS - DL	2300		490	250	ng/L	100		537 (modified)	Total/NA

Client Sample ID: Station 11 10

Lab Sample ID: 500-236865

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	94		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	270		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	340		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	280		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	15		1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.4	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	180		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	240		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	65		1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorononanesulfonic acid (PFNS)	0.58	J	1.9	0.35	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	2.4		1.9	0.94	ng/L	1		537 (modified)	Total/NA
4:2 FTS	12		1.9	0.23	ng/L	1		537 (modified)	Total/NA
8:2 FTS	28		1.9	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	2100		38	11	ng/L	20		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	3100		38	10	ng/L	20		537 (modified)	Total/NA
6:2 FTS - DL	710		96	48	ng/L	20		537 (modified)	Total/NA

Client Sample ID: Station 10 11

Lab Sample ID: 500-236865

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.6		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	15		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	18		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.7		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	19		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.2	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.75	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.3		1.9	0.19	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Station ~~1011~~ (Continued)

Lab Sample ID: 500-236865-

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanesulfonic acid (PFPeS)	8.0		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	67		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	1.7	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	73		1.9	0.52	ng/L	1		537 (modified)	Total/NA
6:2 FTS	7.1		4.8	2.4	ng/L	1		537 (modified)	Total/NA
8:2 FTS	1.2	J	1.9	0.44	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 500-236865-6

No Detections.

Client Sample ID: Station 4A

Lab Sample ID: 500-236865-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	19		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	45		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	54		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	18		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	48		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.3		1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.67	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	26		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	34		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	220		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	7.8		1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	290		1.9	0.51	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.93	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
6:2 FTS	69		4.8	2.4	ng/L	1		537 (modified)	Total/NA
8:2 FTS	2.1		1.9	0.44	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Station 7

Lab Sample ID: 500-236865-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	14		4.9	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	31		1.9	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	36		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	13		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	32		1.9	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.9		1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.70	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	18		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	21		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	150		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	5.0		1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	190		1.9	0.53	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.68	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
6:2 FTS	40		4.9	2.4	ng/L	1		537 (modified)	Total/NA
8:2 FTS	1.1	J	1.9	0.45	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Method Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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

Sample Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-236865-1	Outfall 32	Water	07/18/23 07:45	07/19/23 09:40
500-236865-2	Outfall 21	Water	07/18/23 08:00	07/19/23 09:40
500-236865-3	Outfall 21 DUP	Water	07/18/23 08:05	07/19/23 09:40
500-236865-4	Station 4 10	Water	07/18/23 09:00	07/19/23 09:40
500-236865-5	Station 4 11	Water	07/18/23 09:15	07/19/23 09:40
500-236865-6	Field Blank	Water	07/18/23 09:10	07/19/23 09:40
500-236865-7	Station 4A	Water	07/18/23 10:10	07/19/23 09:40
500-236865-8	Station 7	Water	07/18/23 10:30	07/19/23 09:40

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

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-236865-1

Date Collected: 07/18/23 07:45

Matrix: Water

Date Received: 07/19/23 09:40

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	25		4.7	2.2	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluoropentanoic acid (PFPeA)	56		1.9	0.46	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorohexanoic acid (PFHxA)	59		1.9	0.54	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluoroheptanoic acid (PFHpA)	32		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorooctanoic acid (PFOA)	64		1.9	0.80	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorononanoic acid (PFNA)	4.9		1.9	0.25	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorodecanoic acid (PFDA)	1.6	J	1.9	0.29	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorobutanesulfonic acid (PFBS)	25		1.9	0.19	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluoropentanesulfonic acid (PFPeS)	35		1.9	0.28	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorohexanesulfonic acid (PFHxS)	210		1.9	0.53	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluoroheptanesulfonic acid (PFHpS)	9.1		1.9	0.18	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		07/26/23 05:23	07/28/23 15:00	1
Perfluorooctanesulfonamide (FOSA)	2.2		1.9	0.92	ng/L		07/26/23 05:23	07/28/23 15:00	1
NEtFOSA	<0.81		1.9	0.81	ng/L		07/26/23 05:23	07/28/23 15:00	1
NMeFOSA	<0.40		1.9	0.40	ng/L		07/26/23 05:23	07/28/23 15:00	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		07/26/23 05:23	07/28/23 15:00	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		07/26/23 05:23	07/28/23 15:00	1
NMeFOSE	<1.3		3.7	1.3	ng/L		07/26/23 05:23	07/28/23 15:00	1
NEtFOSE	<0.80		1.9	0.80	ng/L		07/26/23 05:23	07/28/23 15:00	1
4:2 FTS	0.79	J	1.9	0.22	ng/L		07/26/23 05:23	07/28/23 15:00	1
6:2 FTS	54		4.7	2.3	ng/L		07/26/23 05:23	07/28/23 15:00	1
8:2 FTS	15		1.9	0.43	ng/L		07/26/23 05:23	07/28/23 15:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		07/26/23 05:23	07/28/23 15:00	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		07/26/23 05:23	07/28/23 15:00	1
9CI-PF3ONS	<0.22		1.9	0.22	ng/L		07/26/23 05:23	07/28/23 15:00	1
11CI-PF3OUdS	<0.30		1.9	0.30	ng/L		07/26/23 05:23	07/28/23 15:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	80		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C5 PFPeA	99		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C2 PFHxA	103		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C4 PFHpA	101		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C4 PFOA	106		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C5 PFNA	100		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C2 PFDA	104		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C2 PFUnA	100		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C2 PFDoA	93		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C2 PFTrDA	94		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C3 PFBS	100		25 - 150	07/26/23 05:23	07/28/23 15:00	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-236865-1

Date Collected: 07/18/23 07:45

Matrix: Water

Date Received: 07/19/23 09:40

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	110		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C4 PFOS	109		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C8 FOSA	124		10 - 150	07/26/23 05:23	07/28/23 15:00	1
d3-NMeFOSAA	111		25 - 150	07/26/23 05:23	07/28/23 15:00	1
d5-NEtFOSAA	124		25 - 150	07/26/23 05:23	07/28/23 15:00	1
d-N-MeFOSA-M	108		10 - 150	07/26/23 05:23	07/28/23 15:00	1
d-N-EtFOSA-M	102		10 - 150	07/26/23 05:23	07/28/23 15:00	1
d7-N-MeFOSE-M	110		10 - 150	07/26/23 05:23	07/28/23 15:00	1
d9-N-EtFOSE-M	97		10 - 150	07/26/23 05:23	07/28/23 15:00	1
M2-4:2 FTS	98		25 - 150	07/26/23 05:23	07/28/23 15:00	1
M2-6:2 FTS	90		25 - 150	07/26/23 05:23	07/28/23 15:00	1
M2-8:2 FTS	97		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C3 HFPO-DA	93		25 - 150	07/26/23 05:23	07/28/23 15:00	1
13C2 10:2 FTS	78		25 - 150	07/26/23 05:23	07/28/23 15:00	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanesulfonic acid (PFOS)	470		9.4	2.5	ng/L		07/26/23 05:23	07/31/23 11:49	5

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	95		25 - 150	07/26/23 05:23	07/31/23 11:49	5

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Outfall 21

Lab Sample ID: 500-236865-2

Date Collected: 07/18/23 08:00

Matrix: Water

Date Received: 07/19/23 09:40

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	250		4.7	2.2	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluoroheptanoic acid (PFHpA)	310		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluorononanoic acid (PFNA)	55		1.9	0.25	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluorodecanoic acid (PFDA)	6.4		1.9	0.29	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluorononanesulfonic acid (PFNS)	7.5		1.9	0.35	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		07/26/23 05:23	07/28/23 15:11	1
Perfluorooctanesulfonamide (FOSA)	14		1.9	0.92	ng/L		07/26/23 05:23	07/28/23 15:11	1
NEtFOSA	<0.81		1.9	0.81	ng/L		07/26/23 05:23	07/28/23 15:11	1
NMeFOSA	<0.40		1.9	0.40	ng/L		07/26/23 05:23	07/28/23 15:11	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		07/26/23 05:23	07/28/23 15:11	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		07/26/23 05:23	07/28/23 15:11	1
NMeFOSE	<1.3		3.7	1.3	ng/L		07/26/23 05:23	07/28/23 15:11	1
NEtFOSE	<0.80		1.9	0.80	ng/L		07/26/23 05:23	07/28/23 15:11	1
4:2 FTS	20		1.9	0.22	ng/L		07/26/23 05:23	07/28/23 15:11	1
8:2 FTS	240		1.9	0.43	ng/L		07/26/23 05:23	07/28/23 15:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		07/26/23 05:23	07/28/23 15:11	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		07/26/23 05:23	07/28/23 15:11	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		07/26/23 05:23	07/28/23 15:11	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		07/26/23 05:23	07/28/23 15:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C4 PFHpA	84		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C5 PFNA	66		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C2 PFDA	112		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C2 PFUnA	114		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C2 PFDoA	113		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C2 PFTeDA	101		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C4 PFOS	77		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C8 FOSA	144		10 - 150	07/26/23 05:23	07/28/23 15:11	1
d3-NMeFOSAA	126		25 - 150	07/26/23 05:23	07/28/23 15:11	1
d5-NEtFOSAA	136		25 - 150	07/26/23 05:23	07/28/23 15:11	1
d-N-MeFOSA-M	115		10 - 150	07/26/23 05:23	07/28/23 15:11	1
d-N-EtFOSA-M	110		10 - 150	07/26/23 05:23	07/28/23 15:11	1
d7-N-MeFOSE-M	124		10 - 150	07/26/23 05:23	07/28/23 15:11	1
d9-N-EtFOSE-M	113		10 - 150	07/26/23 05:23	07/28/23 15:11	1
M2-4:2 FTS	102		25 - 150	07/26/23 05:23	07/28/23 15:11	1
M2-8:2 FTS	99		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C3 HFPO-DA	109		25 - 150	07/26/23 05:23	07/28/23 15:11	1
13C2 10:2 FTS	87		25 - 150	07/26/23 05:23	07/28/23 15:11	1

Euofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Outfall 21

Lab Sample ID: 500-236865-2

Date Collected: 07/18/23 08:00

Matrix: Water

Date Received: 07/19/23 09:40

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1200		190	46	ng/L		07/26/23 05:23	07/28/23 05:24	100
Perfluorohexanoic acid (PFHxA)	1200		190	54	ng/L		07/26/23 05:23	07/28/23 05:24	100
Perfluorooctanoic acid (PFOA)	800		190	80	ng/L		07/26/23 05:23	07/28/23 05:24	100
Perfluorobutanesulfonic acid (PFBS)	740		190	19	ng/L		07/26/23 05:23	07/28/23 05:24	100
Perfluoropentanesulfonic acid (PFPeS)	1200		190	28	ng/L		07/26/23 05:23	07/28/23 05:24	100
Perfluorohexanesulfonic acid (PFHxS)	8500		190	53	ng/L		07/26/23 05:23	07/28/23 05:24	100
Perfluoroheptanesulfonic acid (PFHpS)	270		190	18	ng/L		07/26/23 05:23	07/28/23 05:24	100
Perfluorooctanesulfonic acid (PFOS)	14000		190	51	ng/L		07/26/23 05:23	07/28/23 05:24	100
6:2 FTS	1900		470	230	ng/L		07/26/23 05:23	07/28/23 05:24	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	99		25 - 150				07/26/23 05:23	07/28/23 05:24	100
13C2 PFHxA	119		25 - 150				07/26/23 05:23	07/28/23 05:24	100
13C4 PFOA	118		25 - 150				07/26/23 05:23	07/28/23 05:24	100
13C3 PFBS	104		25 - 150				07/26/23 05:23	07/28/23 05:24	100
18O2 PFHxS	114		25 - 150				07/26/23 05:23	07/28/23 05:24	100
13C4 PFOS	127		25 - 150				07/26/23 05:23	07/28/23 05:24	100
M2-6:2 FTS	145		25 - 150				07/26/23 05:23	07/28/23 05:24	100

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-236865-3

Date Collected: 07/18/23 08:05

Matrix: Water

Date Received: 07/19/23 09:40

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	260		4.9	2.4	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluoroheptanoic acid (PFHpA)	310		2.0	0.25	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluorononanoic acid (PFNA)	55		2.0	0.27	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluorodecanoic acid (PFDA)	6.2		2.0	0.30	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluorononanesulfonic acid (PFNS)	6.9		2.0	0.36	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		07/26/23 05:23	07/28/23 15:21	1
Perfluorooctanesulfonamide (FOSA)	15		2.0	0.96	ng/L		07/26/23 05:23	07/28/23 15:21	1
NEtFOSA	<0.86		2.0	0.86	ng/L		07/26/23 05:23	07/28/23 15:21	1
NMeFOSA	<0.42		2.0	0.42	ng/L		07/26/23 05:23	07/28/23 15:21	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		07/26/23 05:23	07/28/23 15:21	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		07/26/23 05:23	07/28/23 15:21	1
NMeFOSE	<1.4		3.9	1.4	ng/L		07/26/23 05:23	07/28/23 15:21	1
NEtFOSE	<0.84		2.0	0.84	ng/L		07/26/23 05:23	07/28/23 15:21	1
4:2 FTS	21		2.0	0.24	ng/L		07/26/23 05:23	07/28/23 15:21	1
8:2 FTS	210		2.0	0.45	ng/L		07/26/23 05:23	07/28/23 15:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		2.0	0.39	ng/L		07/26/23 05:23	07/28/23 15:21	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		07/26/23 05:23	07/28/23 15:21	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		07/26/23 05:23	07/28/23 15:21	1
11Cl-PF3OUdS	<0.31		2.0	0.31	ng/L		07/26/23 05:23	07/28/23 15:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C4 PFHpA	85		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C5 PFNA	67		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C2 PFDA	116		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C2 PFUnA	114		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C2 PFDoA	112		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C2 PFTeDA	106		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C4 PFOS	76		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C8 FOSA	144		10 - 150	07/26/23 05:23	07/28/23 15:21	1
d3-NMeFOSAA	130		25 - 150	07/26/23 05:23	07/28/23 15:21	1
d5-NEtFOSAA	131		25 - 150	07/26/23 05:23	07/28/23 15:21	1
d-N-MeFOSA-M	115		10 - 150	07/26/23 05:23	07/28/23 15:21	1
d-N-EtFOSA-M	111		10 - 150	07/26/23 05:23	07/28/23 15:21	1
d7-N-MeFOSE-M	125		10 - 150	07/26/23 05:23	07/28/23 15:21	1
d9-N-EtFOSE-M	115		10 - 150	07/26/23 05:23	07/28/23 15:21	1
M2-4:2 FTS	99		25 - 150	07/26/23 05:23	07/28/23 15:21	1
M2-8:2 FTS	103		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C3 HFPO-DA	111		25 - 150	07/26/23 05:23	07/28/23 15:21	1
13C2 10:2 FTS	88		25 - 150	07/26/23 05:23	07/28/23 15:21	1

Euofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-236865-3

Date Collected: 07/18/23 08:05

Matrix: Water

Date Received: 07/19/23 09:40

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1100		200	48	ng/L		07/26/23 05:23	07/28/23 05:34	100
Perfluorohexanoic acid (PFHxA)	1200		200	57	ng/L		07/26/23 05:23	07/28/23 05:34	100
Perfluorooctanoic acid (PFOA)	680		200	84	ng/L		07/26/23 05:23	07/28/23 05:34	100
Perfluorobutanesulfonic acid (PFBS)	650		200	20	ng/L		07/26/23 05:23	07/28/23 05:34	100
Perfluoropentanesulfonic acid (PFPeS)	1000		200	30	ng/L		07/26/23 05:23	07/28/23 05:34	100
Perfluorohexanesulfonic acid (PFHxS)	7800		200	56	ng/L		07/26/23 05:23	07/28/23 05:34	100
Perfluoroheptanesulfonic acid (PFHpS)	270		200	19	ng/L		07/26/23 05:23	07/28/23 05:34	100
Perfluorooctanesulfonic acid (PFOS)	13000		200	53	ng/L		07/26/23 05:23	07/28/23 05:34	100
6:2 FTS	2300		490	250	ng/L		07/26/23 05:23	07/28/23 05:34	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	96		25 - 150				07/26/23 05:23	07/28/23 05:34	100
13C2 PFHxA	101		25 - 150				07/26/23 05:23	07/28/23 05:34	100
13C4 PFOA	118		25 - 150				07/26/23 05:23	07/28/23 05:34	100
13C3 PFBS	107		25 - 150				07/26/23 05:23	07/28/23 05:34	100
18O2 PFHxS	101		25 - 150				07/26/23 05:23	07/28/23 05:34	100
13C4 PFOS	119		25 - 150				07/26/23 05:23	07/28/23 05:34	100
M2-6:2 FTS	110		25 - 150				07/26/23 05:23	07/28/23 05:34	100

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Station 11 10

Lab Sample ID: 500-236865-4

Date Collected: 07/18/23 09:00

Matrix: Water

Date Received: 07/19/23 09:40

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	94		4.8	2.3	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluoropentanoic acid (PFPeA)	270		1.9	0.47	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorohexanoic acid (PFHxA)	340		1.9	0.56	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluoroheptanoic acid (PFHpA)	110		1.9	0.24	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorooctanoic acid (PFOA)	280		1.9	0.82	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorononanoic acid (PFNA)	15		1.9	0.26	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorodecanoic acid (PFDA)	1.4	J	1.9	0.30	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorobutanesulfonic acid (PFBS)	180		1.9	0.19	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluoropentanesulfonic acid (PFPeS)	240		1.9	0.29	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluoroheptanesulfonic acid (PFHpS)	65		1.9	0.18	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorononanesulfonic acid (PFNS)	0.58	J	1.9	0.35	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		07/26/23 05:23	07/28/23 15:31	1
Perfluorooctanesulfonamide (FOSA)	2.4		1.9	0.94	ng/L		07/26/23 05:23	07/28/23 15:31	1
NEtFOSA	<0.83		1.9	0.83	ng/L		07/26/23 05:23	07/28/23 15:31	1
NMeFOSA	<0.41		1.9	0.41	ng/L		07/26/23 05:23	07/28/23 15:31	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		07/26/23 05:23	07/28/23 15:31	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		07/26/23 05:23	07/28/23 15:31	1
NMeFOSE	<1.3		3.8	1.3	ng/L		07/26/23 05:23	07/28/23 15:31	1
NEtFOSE	<0.82		1.9	0.82	ng/L		07/26/23 05:23	07/28/23 15:31	1
4:2 FTS	12		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 15:31	1
8:2 FTS	28		1.9	0.44	ng/L		07/26/23 05:23	07/28/23 15:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		07/26/23 05:23	07/28/23 15:31	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		07/26/23 05:23	07/28/23 15:31	1
9CI-PF3ONS	<0.23		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 15:31	1
11CI-PF3OUdS	<0.31		1.9	0.31	ng/L		07/26/23 05:23	07/28/23 15:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	88		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C5 PFPeA	105		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C2 PFHxA	106		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C4 PFHpA	95		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C4 PFOA	107		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C5 PFNA	87		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C2 PFDA	99		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C2 PFUnA	101		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C2 PFDoA	93		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C2 PFTeDA	88		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C3 PFBS	111		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C4 PFOS	105		25 - 150				07/26/23 05:23	07/28/23 15:31	1
13C8 FOSA	123		10 - 150				07/26/23 05:23	07/28/23 15:31	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Station ~~11-10~~

Lab Sample ID: 500-236865-4

Date Collected: 07/18/23 09:00

Matrix: Water

Date Received: 07/19/23 09:40

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d3-NMeFOSAA	114		25 - 150	07/26/23 05:23	07/28/23 15:31	1
d5-NEtFOSAA	113		25 - 150	07/26/23 05:23	07/28/23 15:31	1
d-N-MeFOSA-M	99		10 - 150	07/26/23 05:23	07/28/23 15:31	1
d-N-EtFOSA-M	92		10 - 150	07/26/23 05:23	07/28/23 15:31	1
d7-N-MeFOSE-M	103		10 - 150	07/26/23 05:23	07/28/23 15:31	1
d9-N-EtFOSE-M	96		10 - 150	07/26/23 05:23	07/28/23 15:31	1
M2-4:2 FTS	86		25 - 150	07/26/23 05:23	07/28/23 15:31	1
M2-8:2 FTS	80		25 - 150	07/26/23 05:23	07/28/23 15:31	1
13C3 HFPO-DA	97		25 - 150	07/26/23 05:23	07/28/23 15:31	1
13C2 10:2 FTS	68		25 - 150	07/26/23 05:23	07/28/23 15:31	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorohexanesulfonic acid (PFHxS)	2100		38	11	ng/L		07/26/23 05:23	07/31/23 12:00	20
Perfluorooctanesulfonic acid (PFOS)	3100		38	10	ng/L		07/26/23 05:23	07/31/23 12:00	20
6:2 FTS	710		96	48	ng/L		07/26/23 05:23	07/31/23 12:00	20
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>			
18O2 PFHxS	104		25 - 150	07/26/23 05:23	07/31/23 12:00	20			
13C4 PFOS	85		25 - 150	07/26/23 05:23	07/31/23 12:00	20			
M2-6:2 FTS	128		25 - 150	07/26/23 05:23	07/31/23 12:00	20			

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Station 10

Lab Sample ID: 500-236865-5

Date Collected: 07/18/23 09:15

Matrix: Water

Date Received: 07/19/23 09:40

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.6		4.8	2.3	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluoropentanoic acid (PFPeA)	15		1.9	0.47	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorohexanoic acid (PFHxA)	18		1.9	0.56	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluoroheptanoic acid (PFHpA)	7.7		1.9	0.24	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorooctanoic acid (PFOA)	19		1.9	0.81	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorononanoic acid (PFNA)	1.2	J	1.9	0.26	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorodecanoic acid (PFDA)	0.75	J	1.9	0.30	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorobutanesulfonic acid (PFBS)	7.3		1.9	0.19	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluoropentanesulfonic acid (PFPeS)	8.0		1.9	0.29	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorohexanesulfonic acid (PFHxS)	67		1.9	0.55	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluoroheptanesulfonic acid (PFHpS)	1.7	J	1.9	0.18	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorooctanesulfonic acid (PFOS)	73		1.9	0.52	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		07/26/23 05:23	07/28/23 15:41	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		07/26/23 05:23	07/28/23 15:41	1
NEtFOSA	<0.83		1.9	0.83	ng/L		07/26/23 05:23	07/28/23 15:41	1
NMeFOSA	<0.41		1.9	0.41	ng/L		07/26/23 05:23	07/28/23 15:41	1
NMeFOSAA	<1.1		4.8	1.1	ng/L		07/26/23 05:23	07/28/23 15:41	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		07/26/23 05:23	07/28/23 15:41	1
NMeFOSE	<1.3		3.8	1.3	ng/L		07/26/23 05:23	07/28/23 15:41	1
NEtFOSE	<0.81		1.9	0.81	ng/L		07/26/23 05:23	07/28/23 15:41	1
4:2 FTS	<0.23		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 15:41	1
6:2 FTS	7.1		4.8	2.4	ng/L		07/26/23 05:23	07/28/23 15:41	1
8:2 FTS	1.2	J	1.9	0.44	ng/L		07/26/23 05:23	07/28/23 15:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		07/26/23 05:23	07/28/23 15:41	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		07/26/23 05:23	07/28/23 15:41	1
9CI-PF3ONS	<0.23		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 15:41	1
11CI-PF3OUdS	<0.31		1.9	0.31	ng/L		07/26/23 05:23	07/28/23 15:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	85		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C5 PFPeA	102		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C2 PFHxA	103		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C4 PFHpA	103		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C4 PFOA	106		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C5 PFNA	104		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C2 PFDA	105		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C2 PFUnA	106		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C2 PFDoA	100		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C2 PFTeDA	88		25 - 150	07/26/23 05:23	07/28/23 15:41	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Station 10 11

Lab Sample ID: 500-236865-5

Date Collected: 07/18/23 09:15

Matrix: Water

Date Received: 07/19/23 09:40

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	106		25 - 150	07/26/23 05:23	07/28/23 15:41	1
18O2 PFHxS	111		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C4 PFOS	111		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C8 FOSA	134		10 - 150	07/26/23 05:23	07/28/23 15:41	1
d3-NMeFOSAA	125		25 - 150	07/26/23 05:23	07/28/23 15:41	1
d5-NEtFOSAA	122		25 - 150	07/26/23 05:23	07/28/23 15:41	1
d-N-MeFOSA-M	110		10 - 150	07/26/23 05:23	07/28/23 15:41	1
d-N-EtFOSA-M	103		10 - 150	07/26/23 05:23	07/28/23 15:41	1
d7-N-MeFOSE-M	115		10 - 150	07/26/23 05:23	07/28/23 15:41	1
d9-N-EtFOSE-M	105		10 - 150	07/26/23 05:23	07/28/23 15:41	1
M2-4:2 FTS	99		25 - 150	07/26/23 05:23	07/28/23 15:41	1
M2-6:2 FTS	95		25 - 150	07/26/23 05:23	07/28/23 15:41	1
M2-8:2 FTS	96		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C3 HFPO-DA	96		25 - 150	07/26/23 05:23	07/28/23 15:41	1
13C2 10:2 FTS	76		25 - 150	07/26/23 05:23	07/28/23 15:41	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Field Blank

Lab Sample ID: 500-236865-6

Date Collected: 07/18/23 09:10

Matrix: Water

Date Received: 07/19/23 09:40

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		07/26/23 05:23	07/28/23 15:52	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		07/26/23 05:23	07/28/23 15:52	1
NEtFOSA	<0.83		1.9	0.83	ng/L		07/26/23 05:23	07/28/23 15:52	1
NMeFOSA	<0.41		1.9	0.41	ng/L		07/26/23 05:23	07/28/23 15:52	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		07/26/23 05:23	07/28/23 15:52	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		07/26/23 05:23	07/28/23 15:52	1
NMeFOSE	<1.3		3.8	1.3	ng/L		07/26/23 05:23	07/28/23 15:52	1
NEtFOSE	<0.81		1.9	0.81	ng/L		07/26/23 05:23	07/28/23 15:52	1
4:2 FTS	<0.23		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 15:52	1
6:2 FTS	<2.4		4.7	2.4	ng/L		07/26/23 05:23	07/28/23 15:52	1
8:2 FTS	<0.44		1.9	0.44	ng/L		07/26/23 05:23	07/28/23 15:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		07/26/23 05:23	07/28/23 15:52	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		07/26/23 05:23	07/28/23 15:52	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 15:52	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		07/26/23 05:23	07/28/23 15:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	107		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C5 PFPeA	104		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C2 PFHxA	103		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C4 PFHpA	108		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C4 PFOA	109		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C5 PFNA	110		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C2 PFDA	114		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C2 PFUnA	114		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C2 PFDoA	116		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C2 PFTeDA	113		25 - 150				07/26/23 05:23	07/28/23 15:52	1
13C3 PFBS	111		25 - 150				07/26/23 05:23	07/28/23 15:52	1
18O2 PFHxS	111		25 - 150				07/26/23 05:23	07/28/23 15:52	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Field Blank

Lab Sample ID: 500-236865-6

Date Collected: 07/18/23 09:10

Matrix: Water

Date Received: 07/19/23 09:40

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	116		25 - 150	07/26/23 05:23	07/28/23 15:52	1
13C8 FOSA	134		10 - 150	07/26/23 05:23	07/28/23 15:52	1
d3-NMeFOSAA	130		25 - 150	07/26/23 05:23	07/28/23 15:52	1
d5-NEtFOSAA	128		25 - 150	07/26/23 05:23	07/28/23 15:52	1
d-N-MeFOSA-M	121		10 - 150	07/26/23 05:23	07/28/23 15:52	1
d-N-EtFOSA-M	116		10 - 150	07/26/23 05:23	07/28/23 15:52	1
d7-N-MeFOSE-M	132		10 - 150	07/26/23 05:23	07/28/23 15:52	1
d9-N-EtFOSE-M	125		10 - 150	07/26/23 05:23	07/28/23 15:52	1
M2-4:2 FTS	98		25 - 150	07/26/23 05:23	07/28/23 15:52	1
M2-6:2 FTS	91		25 - 150	07/26/23 05:23	07/28/23 15:52	1
M2-8:2 FTS	94		25 - 150	07/26/23 05:23	07/28/23 15:52	1
13C3 HFPO-DA	105		25 - 150	07/26/23 05:23	07/28/23 15:52	1
13C2 10:2 FTS	89		25 - 150	07/26/23 05:23	07/28/23 15:52	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Station 4A

Lab Sample ID: 500-236865-7

Date Collected: 07/18/23 10:10

Matrix: Water

Date Received: 07/19/23 09:40

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	19		4.8	2.3	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluoropentanoic acid (PFPeA)	45		1.9	0.47	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorohexanoic acid (PFHxA)	54		1.9	0.55	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluoroheptanoic acid (PFHpA)	18		1.9	0.24	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorooctanoic acid (PFOA)	48		1.9	0.81	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorononanoic acid (PFNA)	2.3		1.9	0.26	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorodecanoic acid (PFDA)	0.67	J	1.9	0.30	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorobutanesulfonic acid (PFBS)	26		1.9	0.19	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluoropentanesulfonic acid (PFPeS)	34		1.9	0.29	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorohexanesulfonic acid (PFHxS)	220		1.9	0.54	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluoroheptanesulfonic acid (PFHpS)	7.8		1.9	0.18	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorooctanesulfonic acid (PFOS)	290		1.9	0.51	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		07/26/23 05:23	07/28/23 16:02	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		07/26/23 05:23	07/28/23 16:02	1
NEtFOSA	<0.83		1.9	0.83	ng/L		07/26/23 05:23	07/28/23 16:02	1
NMeFOSA	<0.41		1.9	0.41	ng/L		07/26/23 05:23	07/28/23 16:02	1
NMeFOSAA	<1.1		4.8	1.1	ng/L		07/26/23 05:23	07/28/23 16:02	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		07/26/23 05:23	07/28/23 16:02	1
NMeFOSE	<1.3		3.8	1.3	ng/L		07/26/23 05:23	07/28/23 16:02	1
NEtFOSE	<0.81		1.9	0.81	ng/L		07/26/23 05:23	07/28/23 16:02	1
4:2 FTS	0.93	J	1.9	0.23	ng/L		07/26/23 05:23	07/28/23 16:02	1
6:2 FTS	69		4.8	2.4	ng/L		07/26/23 05:23	07/28/23 16:02	1
8:2 FTS	2.1		1.9	0.44	ng/L		07/26/23 05:23	07/28/23 16:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		07/26/23 05:23	07/28/23 16:02	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		07/26/23 05:23	07/28/23 16:02	1
9CI-PF3ONS	<0.23		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 16:02	1
11CI-PF3OUdS	<0.30		1.9	0.30	ng/L		07/26/23 05:23	07/28/23 16:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	83		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C5 PFPeA	98		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C2 PFHxA	100		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C4 PFHpA	100		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C4 PFOA	100		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C5 PFNA	102		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C2 PFDA	98		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C2 PFUnA	101		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C2 PFDoA	91		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C2 PFTeDA	75		25 - 150	07/26/23 05:23	07/28/23 16:02	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Station 4A

Lab Sample ID: 500-236865-7

Date Collected: 07/18/23 10:10

Matrix: Water

Date Received: 07/19/23 09:40

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	97		25 - 150	07/26/23 05:23	07/28/23 16:02	1
18O2 PFHxS	105		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C4 PFOS	100		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C8 FOSA	121		10 - 150	07/26/23 05:23	07/28/23 16:02	1
d3-NMeFOSAA	111		25 - 150	07/26/23 05:23	07/28/23 16:02	1
d5-NEtFOSAA	119		25 - 150	07/26/23 05:23	07/28/23 16:02	1
d-N-MeFOSA-M	101		10 - 150	07/26/23 05:23	07/28/23 16:02	1
d-N-EtFOSA-M	95		10 - 150	07/26/23 05:23	07/28/23 16:02	1
d7-N-MeFOSE-M	107		10 - 150	07/26/23 05:23	07/28/23 16:02	1
d9-N-EtFOSE-M	96		10 - 150	07/26/23 05:23	07/28/23 16:02	1
M2-4:2 FTS	93		25 - 150	07/26/23 05:23	07/28/23 16:02	1
M2-6:2 FTS	87		25 - 150	07/26/23 05:23	07/28/23 16:02	1
M2-8:2 FTS	85		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C3 HFPO-DA	93		25 - 150	07/26/23 05:23	07/28/23 16:02	1
13C2 10:2 FTS	69		25 - 150	07/26/23 05:23	07/28/23 16:02	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Station 7

Lab Sample ID: 500-236865-8

Date Collected: 07/18/23 10:30

Matrix: Water

Date Received: 07/19/23 09:40

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	14		4.9	2.3	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluoropentanoic acid (PFPeA)	31		1.9	0.48	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorohexanoic acid (PFHxA)	36		1.9	0.56	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluoroheptanoic acid (PFHpA)	13		1.9	0.24	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorooctanoic acid (PFOA)	32		1.9	0.83	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorononanoic acid (PFNA)	1.9		1.9	0.26	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorodecanoic acid (PFDA)	0.70	J	1.9	0.30	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		1.9	1.3	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorobutanesulfonic acid (PFBS)	18		1.9	0.19	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluoropentanesulfonic acid (PFPeS)	21		1.9	0.29	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorohexanesulfonic acid (PFHxS)	150		1.9	0.55	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluoroheptanesulfonic acid (PFHpS)	5.0		1.9	0.18	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorooctanesulfonic acid (PFOS)	190		1.9	0.53	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		07/26/23 05:23	07/28/23 16:12	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		07/26/23 05:23	07/28/23 16:12	1
NEtFOSA	<0.85		1.9	0.85	ng/L		07/26/23 05:23	07/28/23 16:12	1
NMeFOSA	<0.42		1.9	0.42	ng/L		07/26/23 05:23	07/28/23 16:12	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		07/26/23 05:23	07/28/23 16:12	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		07/26/23 05:23	07/28/23 16:12	1
NMeFOSE	<1.4		3.9	1.4	ng/L		07/26/23 05:23	07/28/23 16:12	1
NEtFOSE	<0.83		1.9	0.83	ng/L		07/26/23 05:23	07/28/23 16:12	1
4:2 FTS	0.68	J	1.9	0.23	ng/L		07/26/23 05:23	07/28/23 16:12	1
6:2 FTS	40		4.9	2.4	ng/L		07/26/23 05:23	07/28/23 16:12	1
8:2 FTS	1.1	J	1.9	0.45	ng/L		07/26/23 05:23	07/28/23 16:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		1.9	0.39	ng/L		07/26/23 05:23	07/28/23 16:12	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		07/26/23 05:23	07/28/23 16:12	1
9CI-PF3ONS	<0.23		1.9	0.23	ng/L		07/26/23 05:23	07/28/23 16:12	1
11CI-PF3OUdS	<0.31		1.9	0.31	ng/L		07/26/23 05:23	07/28/23 16:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C5 PFPeA	102		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C2 PFHxA	105		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C4 PFHpA	104		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C4 PFOA	110		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C5 PFNA	107		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C2 PFDA	103		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C2 PFUnA	108		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C2 PFDoA	98		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C2 PFTeDA	76		25 - 150	07/26/23 05:23	07/28/23 16:12	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Station 7

Lab Sample ID: 500-236865-8

Date Collected: 07/18/23 10:30

Matrix: Water

Date Received: 07/19/23 09:40

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	103		25 - 150	07/26/23 05:23	07/28/23 16:12	1
18O2 PFHxS	108		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C4 PFOS	110		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C8 FOSA	129		10 - 150	07/26/23 05:23	07/28/23 16:12	1
d3-NMeFOSAA	116		25 - 150	07/26/23 05:23	07/28/23 16:12	1
d5-NEtFOSAA	121		25 - 150	07/26/23 05:23	07/28/23 16:12	1
d-N-MeFOSA-M	108		10 - 150	07/26/23 05:23	07/28/23 16:12	1
d-N-EtFOSA-M	101		10 - 150	07/26/23 05:23	07/28/23 16:12	1
d7-N-MeFOSE-M	112		10 - 150	07/26/23 05:23	07/28/23 16:12	1
d9-N-EtFOSE-M	99		10 - 150	07/26/23 05:23	07/28/23 16:12	1
M2-4:2 FTS	102		25 - 150	07/26/23 05:23	07/28/23 16:12	1
M2-6:2 FTS	93		25 - 150	07/26/23 05:23	07/28/23 16:12	1
M2-8:2 FTS	88		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C3 HFPO-DA	100		25 - 150	07/26/23 05:23	07/28/23 16:12	1
13C2 10:2 FTS	70		25 - 150	07/26/23 05:23	07/28/23 16:12	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

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

QC Association Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

LCMS

Prep Batch: 693846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236865-1	Outfall 32	Total/NA	Water	3535	
500-236865-1 - DL	Outfall 32	Total/NA	Water	3535	
500-236865-2	Outfall 21	Total/NA	Water	3535	
500-236865-2 - DL	Outfall 21	Total/NA	Water	3535	
500-236865-3 - DL	Outfall 21 DUP	Total/NA	Water	3535	
500-236865-3	Outfall 21 DUP	Total/NA	Water	3535	
500-236865-4	Station 11 10	Total/NA	Water	3535	
500-236865-4 - DL	Station 11 10	Total/NA	Water	3535	
500-236865-5	Station 10 11	Total/NA	Water	3535	
500-236865-6	Field Blank	Total/NA	Water	3535	
500-236865-7	Station 4A	Total/NA	Water	3535	
500-236865-8	Station 7	Total/NA	Water	3535	
MB 320-693846/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-693846/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-693846/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 694232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236865-2 - DL	Outfall 21	Total/NA	Water	537 (modified)	693846
500-236865-3 - DL	Outfall 21 DUP	Total/NA	Water	537 (modified)	693846
LCS 320-693846/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	693846
LCSD 320-693846/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	693846

Analysis Batch: 694456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236865-1	Outfall 32	Total/NA	Water	537 (modified)	693846
500-236865-2	Outfall 21	Total/NA	Water	537 (modified)	693846
500-236865-3	Outfall 21 DUP	Total/NA	Water	537 (modified)	693846
500-236865-4	Station 11 10	Total/NA	Water	537 (modified)	693846
500-236865-5	Station 10 11	Total/NA	Water	537 (modified)	693846
500-236865-6	Field Blank	Total/NA	Water	537 (modified)	693846
500-236865-7	Station 4A	Total/NA	Water	537 (modified)	693846
500-236865-8	Station 7	Total/NA	Water	537 (modified)	693846

Analysis Batch: 694929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236865-1 - DL	Outfall 32	Total/NA	Water	537 (modified)	693846
500-236865-4 - DL	Station 11 10	Total/NA	Water	537 (modified)	693846

Analysis Batch: 695290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-693846/1-A	Method Blank	Total/NA	Water	537 (modified)	693846

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-693846/1-A
Matrix: Water
Analysis Batch: 695290

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 693846

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		07/26/23 05:23	08/01/23 19:27	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		07/26/23 05:23	08/01/23 19:27	1
NEtFOSA	<0.87		2.0	0.87	ng/L		07/26/23 05:23	08/01/23 19:27	1
NMeFOSA	<0.43		2.0	0.43	ng/L		07/26/23 05:23	08/01/23 19:27	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		07/26/23 05:23	08/01/23 19:27	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		07/26/23 05:23	08/01/23 19:27	1
NMeFOSE	<1.4		4.0	1.4	ng/L		07/26/23 05:23	08/01/23 19:27	1
NEtFOSE	<0.85		2.0	0.85	ng/L		07/26/23 05:23	08/01/23 19:27	1
4:2 FTS	<0.24		2.0	0.24	ng/L		07/26/23 05:23	08/01/23 19:27	1
6:2 FTS	<2.5		5.0	2.5	ng/L		07/26/23 05:23	08/01/23 19:27	1
8:2 FTS	<0.46		2.0	0.46	ng/L		07/26/23 05:23	08/01/23 19:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		07/26/23 05:23	08/01/23 19:27	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		07/26/23 05:23	08/01/23 19:27	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		07/26/23 05:23	08/01/23 19:27	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		07/26/23 05:23	08/01/23 19:27	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	122		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C5 PFPeA	125		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C2 PFHxA	118		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C4 PFHpA	128		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C4 PFOA	124		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C5 PFNA	123		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C2 PFDA	126		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C2 PFUnA	122		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C2 PFDoA	124		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C2 PFTeDA	117		25 - 150	07/26/23 05:23	08/01/23 19:27	1

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

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

Lab Sample ID: MB 320-693846/1-A
Matrix: Water
Analysis Batch: 695290

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 693846

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	117		25 - 150	07/26/23 05:23	08/01/23 19:27	1
18O2 PFHxS	124		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C4 PFOS	112		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C8 FOSA	125		10 - 150	07/26/23 05:23	08/01/23 19:27	1
d3-NMeFOSAA	113		25 - 150	07/26/23 05:23	08/01/23 19:27	1
d5-NEtFOSAA	123		25 - 150	07/26/23 05:23	08/01/23 19:27	1
d-N-MeFOSA-M	101		10 - 150	07/26/23 05:23	08/01/23 19:27	1
d-N-EtFOSA-M	102		10 - 150	07/26/23 05:23	08/01/23 19:27	1
d7-N-MeFOSE-M	109		10 - 150	07/26/23 05:23	08/01/23 19:27	1
d9-N-EtFOSE-M	100		10 - 150	07/26/23 05:23	08/01/23 19:27	1
M2-4:2 FTS	122		25 - 150	07/26/23 05:23	08/01/23 19:27	1
M2-6:2 FTS	131		25 - 150	07/26/23 05:23	08/01/23 19:27	1
M2-8:2 FTS	127		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C3 HFPO-DA	124		25 - 150	07/26/23 05:23	08/01/23 19:27	1
13C2 10:2 FTS	144		25 - 150	07/26/23 05:23	08/01/23 19:27	1

Lab Sample ID: LCS 320-693846/2-A
Matrix: Water
Analysis Batch: 694232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 693846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	42.0		ng/L		105	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	41.6		ng/L		104	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	42.9		ng/L		107	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	41.7		ng/L		104	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.1		ng/L		103	60 - 135
Perfluorononanoic acid (PFNA)	40.0	45.1		ng/L		113	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	42.0		ng/L		105	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	41.7		ng/L		104	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.7		ng/L		109	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	41.5		ng/L		104	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	39.7		ng/L		99	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	37.2		ng/L		105	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	40.2		ng/L		107	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.2		ng/L		96	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	36.8		ng/L		96	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	37.6		ng/L		101	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	38.7		ng/L		101	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.0		ng/L		106	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	36.2		ng/L		93	60 - 135

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

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

Lab Sample ID: LCS 320-693846/2-A
Matrix: Water
Analysis Batch: 694232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 693846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	39.1		ng/L		98	60 - 135
NEtFOSA	40.0	40.8		ng/L		102	60 - 135
NMeFOSA	40.0	42.6		ng/L		106	60 - 135
NMeFOSAA	40.0	38.6		ng/L		96	60 - 135
NEtFOSAA	40.0	39.7		ng/L		99	60 - 135
NMeFOSE	40.0	40.8		ng/L		102	60 - 135
NEtFOSE	40.0	40.1		ng/L		100	60 - 135
4:2 FTS	37.5	37.8		ng/L		101	60 - 135
6:2 FTS	38.1	38.2		ng/L		100	60 - 135
8:2 FTS	38.4	38.2		ng/L		99	60 - 135
4,8-Dioxa-3H-perfluoronanoic acid (ADONA)	37.8	40.2		ng/L		106	60 - 135
HFPO-DA (GenX)	40.0	42.3		ng/L		106	60 - 135
9Cl-PF3ONS	37.4	35.0		ng/L		94	60 - 135
11Cl-PF3OUdS	37.8	38.2		ng/L		101	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	111		25 - 150
13C5 PFPeA	108		25 - 150
13C2 PFHxA	108		25 - 150
13C4 PFHpA	110		25 - 150
13C4 PFOA	112		25 - 150
13C5 PFNA	111		25 - 150
13C2 PFDA	114		25 - 150
13C2 PFUnA	122		25 - 150
13C2 PFDoA	121		25 - 150
13C2 PFTeDA	120		25 - 150
13C3 PFBS	110		25 - 150
18O2 PFHxS	111		25 - 150
13C4 PFOS	118		25 - 150
13C8 FOSA	132		10 - 150
d3-NMeFOSAA	138		25 - 150
d5-NEtFOSAA	139		25 - 150
d-N-MeFOSA-M	106		10 - 150
d-N-EtFOSA-M	103		10 - 150
d7-N-MeFOSE-M	130		10 - 150
d9-N-EtFOSE-M	125		10 - 150
M2-4:2 FTS	103		25 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	90		25 - 150
13C3 HFPO-DA	107		25 - 150
13C2 10:2 FTS	88		25 - 150

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

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

Lab Sample ID: LCSD 320-693846/3-A

Matrix: Water

Analysis Batch: 694232

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 693846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	42.3		ng/L		106	60 - 135	1	30	
Perfluoropentanoic acid (PFPeA)	40.0	43.3		ng/L		108	60 - 135	4	30	
Perfluorohexanoic acid (PFHxA)	40.0	41.7		ng/L		104	60 - 135	3	30	
Perfluoroheptanoic acid (PFHpA)	40.0	41.4		ng/L		104	60 - 135	1	30	
Perfluorooctanoic acid (PFOA)	40.0	40.0		ng/L		100	60 - 135	3	30	
Perfluorononanoic acid (PFNA)	40.0	45.4		ng/L		114	60 - 135	1	30	
Perfluorodecanoic acid (PFDA)	40.0	40.6		ng/L		101	60 - 135	3	30	
Perfluoroundecanoic acid (PFUnA)	40.0	41.9		ng/L		105	60 - 135	1	30	
Perfluorododecanoic acid (PFDoA)	40.0	46.1		ng/L		115	60 - 135	5	30	
Perfluorotridecanoic acid (PFTTrDA)	40.0	41.2		ng/L		103	60 - 135	1	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	41.7		ng/L		104	60 - 135	5	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	37.2		ng/L		105	60 - 135	0	30	
Perfluoropentanesulfonic acid (PFPeS)	37.6	38.3		ng/L		102	60 - 135	5	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	33.6		ng/L		92	60 - 135	4	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	39.4		ng/L		103	60 - 135	7	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	39.2		ng/L		105	60 - 135	4	30	
Perfluorononanesulfonic acid (PFNS)	38.5	40.0		ng/L		104	60 - 135	3	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	42.4		ng/L		110	60 - 135	4	30	
Perfluorododecanesulfonic acid (PFDoS)	38.8	36.7		ng/L		95	60 - 135	1	30	
Perfluorooctanesulfonamide (FOSA)	40.0	38.5		ng/L		96	60 - 135	2	30	
NEtFOSA	40.0	40.1		ng/L		100	60 - 135	2	30	
NMeFOSA	40.0	43.6		ng/L		109	60 - 135	2	30	
NMeFOSAA	40.0	38.8		ng/L		97	60 - 135	1	30	
NEtFOSAA	40.0	39.9		ng/L		100	60 - 135	0	30	
NMeFOSE	40.0	40.7		ng/L		102	60 - 135	0	30	
NEtFOSE	40.0	41.2		ng/L		103	60 - 135	3	30	
4:2 FTS	37.5	39.4		ng/L		105	60 - 135	4	30	
6:2 FTS	38.1	37.1		ng/L		97	60 - 135	3	30	
8:2 FTS	38.4	39.4		ng/L		103	60 - 135	3	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	42.1		ng/L		111	60 - 135	5	30	
HFPO-DA (GenX)	40.0	43.8		ng/L		109	60 - 135	3	30	
9CI-PF3ONS	37.4	35.6		ng/L		95	60 - 135	1	30	
11CI-PF3OUdS	37.8	38.9		ng/L		103	60 - 135	2	30	

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	107		25 - 150
13C5 PFPeA	104		25 - 150
13C2 PFHxA	106		25 - 150

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

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

Lab Sample ID: LCSD 320-693846/3-A
 Matrix: Water
 Analysis Batch: 694232

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 693846

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFHpA	108		25 - 150
13C4 PFOA	108		25 - 150
13C5 PFNA	107		25 - 150
13C2 PFDA	112		25 - 150
13C2 PFUnA	118		25 - 150
13C2 PFDoA	114		25 - 150
13C2 PFTeDA	114		25 - 150
13C3 PFBS	110		25 - 150
18O2 PFHxS	113		25 - 150
13C4 PFOS	112		25 - 150
13C8 FOSA	126		10 - 150
d3-NMeFOSAA	129		25 - 150
d5-NEtFOSAA	132		25 - 150
d-N-MeFOSA-M	101		10 - 150
d-N-EtFOSA-M	101		10 - 150
d7-N-MeFOSE-M	122		10 - 150
d9-N-EtFOSE-M	114		10 - 150
M2-4:2 FTS	93		25 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	89		25 - 150
13C3 HFPO-DA	100		25 - 150
13C2 10:2 FTS	85		25 - 150



Lab Chronicle

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Outfall 32
Date Collected: 07/18/23 07:45
Date Received: 07/19/23 09:40

Lab Sample ID: 500-236865-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)		1	694456	C1P	EET SAC	07/28/23 15:00
Total/NA	Prep	3535	DL		693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)	DL	5	694929	RS1	EET SAC	07/31/23 11:49

Client Sample ID: Outfall 21
Date Collected: 07/18/23 08:00
Date Received: 07/19/23 09:40

Lab Sample ID: 500-236865-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)	DL	100	694232	C1P	EET SAC	07/28/23 05:24
Total/NA	Prep	3535			693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)		1	694456	C1P	EET SAC	07/28/23 15:11

Client Sample ID: Outfall 21 DUP
Date Collected: 07/18/23 08:05
Date Received: 07/19/23 09:40

Lab Sample ID: 500-236865-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)	DL	100	694232	C1P	EET SAC	07/28/23 05:34
Total/NA	Prep	3535			693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)		1	694456	C1P	EET SAC	07/28/23 15:21

Client Sample ID: Station 10
Date Collected: 07/18/23 09:00
Date Received: 07/19/23 09:40

Lab Sample ID: 500-236865
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)		1	694456	C1P	EET SAC	07/28/23 15:31
Total/NA	Prep	3535	DL		693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)	DL	20	694929	RS1	EET SAC	07/31/23 12:00

Client Sample ID: Station 11
Date Collected: 07/18/23 09:15
Date Received: 07/19/23 09:40

Lab Sample ID: 500-236865
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)		1	694456	C1P	EET SAC	07/28/23 15:41

Lab Chronicle

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Client Sample ID: Field Blank

Lab Sample ID: 500-236865-6

Date Collected: 07/18/23 09:10

Matrix: Water

Date Received: 07/19/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)		1	694456	C1P	EET SAC	07/28/23 15:52

Client Sample ID: Station 4A

Lab Sample ID: 500-236865-7

Date Collected: 07/18/23 10:10

Matrix: Water

Date Received: 07/19/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)		1	694456	C1P	EET SAC	07/28/23 16:02

Client Sample ID: Station 7

Lab Sample ID: 500-236865-8

Date Collected: 07/18/23 10:30

Matrix: Water

Date Received: 07/19/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			693846	HK	EET SAC	07/26/23 05:23
Total/NA	Analysis	537 (modified)		1	694456	C1P	EET SAC	07/28/23 16:12

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

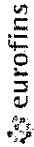
Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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

Chain of Custody Record



Client Information		Lab PM: Fredrick, Sandie		COC No: 500-113592-48810.1																																																													
Client Contact: Ryan Matzuk / Eric Deikers		E-Mail: Sandra.Fredrick@et.eurofins.com		Page: Page 1 of 1																																																													
Company: SCS Engineers		PWSID:		Job #:																																																													
Address: 2830 Dairy Drive		Due Date Requested:		Carrier Tracking No(s):																																																													
City: Madison		TAT Requested (days):		State of Origin:																																																													
State, Zip: WI 53718-6751		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Analysis Requested																																																													
Phone: 608-218-7341		PO #: 25221127 00		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>PC, LDA, W/ PFAS, Standard List (33 analytes)</th> <th>Total Number of Containers</th> <th>Special Instructions/Note</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> </table>		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PC, LDA, W/ PFAS, Standard List (33 analytes)	Total Number of Containers	Special Instructions/Note	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																					
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PC, LDA, W/ PFAS, Standard List (33 analytes)	Total Number of Containers			Special Instructions/Note																																																											
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																															
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																															
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																															
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																															
Email: RMatzuk@scsengineers.com, EDeikers@scsengineers.com		WO #: 25221127 00		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Preservation Code</th> <th>Matrix (W=water, S=solid, O=wastebot)</th> </tr> <tr> <td>Outfall 32</td> <td>7/18/23</td> <td>745</td> <td>G</td> <td></td> <td>Water</td> </tr> <tr> <td>Outfall 21</td> <td></td> <td>800</td> <td></td> <td></td> <td>Water</td> </tr> <tr> <td>Outfall 21 Dup</td> <td></td> <td>805</td> <td></td> <td></td> <td>Water</td> </tr> <tr> <td>Station 11</td> <td></td> <td>900</td> <td></td> <td></td> <td>Water</td> </tr> <tr> <td>Station 10</td> <td></td> <td>915</td> <td></td> <td></td> <td>Water</td> </tr> <tr> <td>Field Blank</td> <td></td> <td>910</td> <td></td> <td></td> <td>Water</td> </tr> <tr> <td>Station 4A</td> <td></td> <td>1010</td> <td></td> <td></td> <td>Water</td> </tr> <tr> <td>Station 7</td> <td></td> <td>1030</td> <td>V</td> <td></td> <td>Water</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Water</td> </tr> </table>		Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (W=water, S=solid, O=wastebot)	Outfall 32	7/18/23	745	G		Water	Outfall 21		800			Water	Outfall 21 Dup		805			Water	Station 11		900			Water	Station 10		915			Water	Field Blank		910			Water	Station 4A		1010			Water	Station 7		1030	V		Water						Water
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)			Preservation Code	Matrix (W=water, S=solid, O=wastebot)																																																										
Outfall 32	7/18/23	745	G				Water																																																										
Outfall 21		800					Water																																																										
Outfall 21 Dup		805					Water																																																										
Station 11		900			Water																																																												
Station 10		915			Water																																																												
Field Blank		910			Water																																																												
Station 4A		1010			Water																																																												
Station 7		1030	V		Water																																																												
					Water																																																												
Project Name: Dane County Airport		Project #: 50021708		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Possible Hazard Identification</th> <th>Non-Hazard</th> <th>Flammable</th> <th>Skin Irritant</th> <th>Poison B</th> <th>Unknown</th> <th>Radiological</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		Possible Hazard Identification	Non-Hazard	Flammable	Skin Irritant	Poison B	Unknown	Radiological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																														
Possible Hazard Identification	Non-Hazard	Flammable	Skin Irritant			Poison B	Unknown	Radiological																																																									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																									
Site: 25221127 00		SSOW#:				<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months <p>Special Instructions/QC Requirements:</p>																																																											
								<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Empty Kit Relinquished by</th> <th>Date</th> <th>Company</th> </tr> <tr> <td>Relinquished by: <i>gm</i></td> <td>Date/Time: 7/18/23 1300</td> <td>Company: _____</td> </tr> <tr> <td>Relinquished by:</td> <td>Date/Time:</td> <td>Company:</td> </tr> <tr> <td>Relinquished by:</td> <td>Date/Time:</td> <td>Company:</td> </tr> </table>		Empty Kit Relinquished by	Date	Company	Relinquished by: <i>gm</i>	Date/Time: 7/18/23 1300	Company: _____	Relinquished by:	Date/Time:	Company:	Relinquished by:	Date/Time:	Company:																																												
Empty Kit Relinquished by	Date	Company																																																															
Relinquished by: <i>gm</i>	Date/Time: 7/18/23 1300	Company: _____																																																															
Relinquished by:	Date/Time:	Company:																																																															
Relinquished by:	Date/Time:	Company:																																																															
				<p>Method of Shipment:</p> <p>Received by: <i>[Signature]</i> Date/Time: 7/19/23 0940 Company: <i>DETRMC</i></p> <p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: 1.5</p>																																																													
						<p>Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No. 2119655</p>																																																											
								<p>Barcode: 500-236865 Chain of Custody</p>																																																									
										<p>Ver 06/08/2021</p>																																																							
												<p>Page 36 of 40</p>																																																					
				<p>8/3/2023</p>																																																													



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-236865-1

SDG Number:

Login Number: 236865

List Number: 1

Creator: Oropeza, Salvador

List Source: Eurofins Sacramento

List Creation: 07/19/23 07:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2119655
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-236865-1	Outfall 32	80	99	103	101	106	100	104	100
500-236865-1 - DL	Outfall 32								
500-236865-2 - DL	Outfall 21		99	119		118			
500-236865-2	Outfall 21	95			84		66	112	114
500-236865-3 - DL	Outfall 21 DUP		96	101		118			
500-236865-3	Outfall 21 DUP	94			85		67	116	114
500-236865-4	Station 4 10	88	105	106	95	107	87	99	101
500-236865-4 - DL	Station 4 10								
500-236865-5	Station 4 11	85	102	103	103	106	104	105	106
500-236865-6	Field Blank	107	104	103	108	109	110	114	114
500-236865-7	Station 4A	83	98	100	100	100	102	98	101
500-236865-8	Station 7	78	102	105	104	110	107	103	108
LCS 320-693846/2-A	Lab Control Sample	111	108	108	110	112	111	114	122
LCSD 320-693846/3-A	Lab Control Sample Dup	107	104	106	108	108	107	112	118
MB 320-693846/1-A	Method Blank	122	125	118	128	124	123	126	122

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-236865-1	Outfall 32	93	94	100	110	109	124	111	124
500-236865-1 - DL	Outfall 32					95			
500-236865-2 - DL	Outfall 21			104	114	127			
500-236865-2	Outfall 21	113	101			77	144	126	136
500-236865-3 - DL	Outfall 21 DUP			107	101	119			
500-236865-3	Outfall 21 DUP	112	106			76	144	130	131
500-236865-4	Station 4 10	93	88	111		105	123	114	113
500-236865-4 - DL	Station 4 10				104	85			
500-236865-5	Station 4 11	100	88	106	111	111	134	125	122
500-236865-6	Field Blank	116	113	111	111	116	134	130	128
500-236865-7	Station 4A	91	75	97	105	100	121	111	119
500-236865-8	Station 7	98	76	103	108	110	129	116	121
LCS 320-693846/2-A	Lab Control Sample	121	120	110	111	118	132	138	139
LCSD 320-693846/3-A	Lab Control Sample Dup	114	114	110	113	112	126	129	132
MB 320-693846/1-A	Method Blank	124	117	117	124	112	125	113	123

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-236865-1	Outfall 32	108	102	110	97	98	90	97	93
500-236865-1 - DL	Outfall 32								
500-236865-2 - DL	Outfall 21						145		
500-236865-2	Outfall 21	115	110	124	113	102		99	109
500-236865-3 - DL	Outfall 21 DUP						110		
500-236865-3	Outfall 21 DUP	115	111	125	115	99		103	111
500-236865-4	Station 4 10	99	92	103	96	86		80	97
500-236865-4 - DL	Station 4 10						128		
500-236865-5	Station 4 11	110	103	115	105	99	95	96	96
500-236865-6	Field Blank	121	116	132	125	98	91	94	105
500-236865-7	Station 4A	101	95	107	96	93	87	85	93
500-236865-8	Station 7	108	101	112	99	102	93	88	100
LCS 320-693846/2-A	Lab Control Sample	106	103	130	125	103	93	90	107

Eurofins Chicago

Isotope Dilution Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-236865-1

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
LCSD 320-693846/3-A	Lab Control Sample Dup	101	101	122	114	93	93	89	100
MB 320-693846/1-A	Method Blank	101	102	109	100	122	131	127	124

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-236865-1	Outfall 32	78
500-236865-1 - DL	Outfall 32	
500-236865-2 - DL	Outfall 21	
500-236865-2	Outfall 21	87
500-236865-3 - DL	Outfall 21 DUP	
500-236865-3	Outfall 21 DUP	88
500-236865-4	Station 4 -10	68
500-236865-4 - DL	Station 4 10	
500-236865-5	Station 4 11	76
500-236865-6	Field Blank	89
500-236865-7	Station 4A	69
500-236865-8	Station 7	70
LCS 320-693846/2-A	Lab Control Sample	88
LCSD 320-693846/3-A	Lab Control Sample Dup	85
MB 320-693846/1-A	Method Blank	144

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOA = d3-NMeFOA
- d5NEFOA = d5-NEtFOA
- dMeFOA = d-N-MeFOA-M
- dEtFOA = d-N-EtFOA-M
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- HFPODA = 13C3 HFPO-DA
- M102FTS = 13C2 10:2 FTS

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Eric Oelkers
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Generated 8/17/2023 7:21:36 PM

JOB DESCRIPTION

Dane County Airport 25221127.00

JOB NUMBER

500-237606-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
8/17/2023 7:21:36 PM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	6
Method Summary	10
Sample Summary	11
Client Sample Results	12
Definitions	28
QC Association	29
QC Sample Results	30
Chronicle	35
Certification Summary	37
Chain of Custody	38
Receipt Checklists	40
Field Data Sheets	41
Isotope Dilution Summary	42

Case Narrative

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Job ID: 500-237606-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-237606-1

Comments

No additional comments.

Receipt

The samples were received on 8/3/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

LCMS

Method 537 (modified): Results for samples Outfall 21 (500-237606-2) and Outfall 21 DUP (500-237606-3) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. Outfall 32 (500-237606-1) and Outfall 21 DUP (500-237606-3)

Method 537 (modified): Results for samples Outfall 32 (500-237606-1) and Station 11 (500-237606-4) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): The transition mass ion ratio was high outside of the established limits for Perfluoroheptanesulfonic acid (PFHpS) in sample (CCVL 320-697513/5). This is indicated by the "R" flag in the raw data. The associated analyte is in control, therefore the data are reported.

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-696276 and 320-696276.

Method: 3535_PFC

Matrix: Water

Method 3535: The following samples in preparation batch 320-696276 and 320-696276 were slightly yellow in color prior to extraction.

Method: 3535_PFC

Matrix: Water

Method 3535: The following samples in preparation batch 320-696276 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. Outfall 21 (500-237606-2) and Outfall 21 DUP (500-237606-3)

Method: 3535_PFC

Matrix: Water

Method 3535: The following samples in preparation batch 320-696276 and 320-696276 were observed to have floating particulates present in the sample bottle.

Method: 3535_PFC

Matrix: Water

Method 3535: During the solid phase extraction process, the following samples contained non-settable particulates which clogged the solid phase extraction column: Outfall 32 (500-237606-1), Outfall 21 (500-237606-2) and Outfall 21 DUP (500-237606-3).

preparation batch 320-696276

Method: 3535_PFC

Matrix: Water

Case Narrative

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Job ID: 500-237606-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

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

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

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-237606-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	24		3.9	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	46		1.6	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	54		1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	26		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	52		1.6	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.2		1.6	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.1	J	1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	19	B	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	28		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	220		1.6	0.45	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	8.8		1.6	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	3.4		1.6	0.77	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.62	J	1.6	0.19	ng/L	1		537 (modified)	Total/NA
6:2 FTS	49		3.9	2.0	ng/L	1		537 (modified)	Total/NA
8:2 FTS	19		1.6	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	460		7.9	2.1	ng/L	5		537 (modified)	Total/NA

Client Sample ID: Outfall 21

Lab Sample ID: 500-237606-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	270		3.9	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	310		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	48		1.6	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	6.1		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanesulfonic acid (PFNS)	8.1		1.6	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	14		1.6	0.77	ng/L	1		537 (modified)	Total/NA
4:2 FTS	18		1.6	0.19	ng/L	1		537 (modified)	Total/NA
8:2 FTS	250		1.6	0.36	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	970		160	38	ng/L	100		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1100		160	46	ng/L	100		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	800		160	67	ng/L	100		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS) - DL	650	B	160	16	ng/L	100		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS) - DL	1000		160	24	ng/L	100		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	7200		160	45	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS) - DL	210		160	15	ng/L	100		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	11000		160	42	ng/L	100		537 (modified)	Total/NA
6:2 FTS - DL	2500		390	200	ng/L	100		537 (modified)	Total/NA

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-237606-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	280		3.9	1.9	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	51		1.6	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	5.9		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanesulfonic acid (PFNS)	8.1		1.6	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	15		1.6	0.77	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Outfall 21 DUP (Continued)

Lab Sample ID: 500-237606-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
4:2 FTS	21		1.6	0.19	ng/L	1		537 (modified)	Total/NA
8:2 FTS	240		1.6	0.36	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	990		160	38	ng/L	100		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1300		160	45	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	330		160	20	ng/L	100		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	770		160	67	ng/L	100		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS) - DL	610	B	160	16	ng/L	100		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS) - DL	1100		160	24	ng/L	100		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	6700		160	45	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS) - DL	240		160	15	ng/L	100		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	12000		160	42	ng/L	100		537 (modified)	Total/NA
6:2 FTS - DL	2100		390	200	ng/L	100		537 (modified)	Total/NA

Client Sample ID: Station 4 10

Lab Sample ID: 500-237606

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	89		4.0	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	280		1.6	0.39	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	100		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	300		1.6	0.68	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	12		1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.2	J	1.6	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	160	B	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	220		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	64		1.6	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorononanesulfonic acid (PFNS)	0.69	J	1.6	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	2.6		1.6	0.79	ng/L	1		537 (modified)	Total/NA
4:2 FTS	11		1.6	0.19	ng/L	1		537 (modified)	Total/NA
8:2 FTS	34		1.6	0.37	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	350		32	9.3	ng/L	20		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	1500		32	9.2	ng/L	20		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	2400		32	8.7	ng/L	20		537 (modified)	Total/NA
6:2 FTS - DL	610		80	40	ng/L	20		537 (modified)	Total/NA

Client Sample ID: Station 10 11

Lab Sample ID: 500-237606

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	10		4.1	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	16		1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	18		1.6	0.47	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.6		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	19		1.6	0.69	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.2	J	1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.58	J	1.6	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.4	B	1.6	0.16	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station ~~10~~ (Continued)

Lab Sample ID: 500-237606-5

Analyte	11	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanesulfonic acid (PFPeS)		8.3		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)		72		1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)		1.7		1.6	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)		90		1.6	0.44	ng/L	1		537 (modified)	Total/NA
6:2 FTS		9.0		4.1	2.0	ng/L	1		537 (modified)	Total/NA
8:2 FTS		2.0		1.6	0.37	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 500-237606-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.20	J B	1.7	0.17	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Station 4A

Lab Sample ID: 500-237606-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	13		4.0	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	24		1.6	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	29		1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	9.9		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	28		1.6	0.68	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.6		1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.64	J	1.6	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12	B	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	15		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	130		1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	3.3		1.6	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	150		1.6	0.43	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.40	J	1.6	0.19	ng/L	1		537 (modified)	Total/NA
6:2 FTS	31		4.0	2.0	ng/L	1		537 (modified)	Total/NA
8:2 FTS - RA	3.1		1.6	0.37	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Station 7

Lab Sample ID: 500-237606-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	14		4.0	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	29		1.6	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	35		1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	12		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	34		1.6	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.0		1.6	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.73	J	1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	15	B	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	20		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	150		1.6	0.45	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	4.5		1.6	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	210		1.6	0.43	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.56	J	1.6	0.19	ng/L	1		537 (modified)	Total/NA
6:2 FTS	44		4.0	2.0	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station 7 (Continued)

Lab Sample ID: 500-237606-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
8:2 FTS	3.1		1.6	0.36	ng/L	1		537 (modified)	Total/NA

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

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-237606-1	Outfall 32	Water	08/02/23 07:45	08/03/23 09:30
500-237606-2	Outfall 21	Water	08/02/23 08:05	08/03/23 09:30
500-237606-3	Outfall 21 DUP	Water	08/02/23 08:05	08/03/23 09:30
500-237606-4	Station 4 10	Water	08/02/23 09:00	08/03/23 09:30
500-237606-5	Station 4 11	Water	08/02/23 09:05	08/03/23 09:30
500-237606-6	Field Blank	Water	08/02/23 09:10	08/03/23 09:30
500-237606-7	Station 4A	Water	08/02/23 09:25	08/03/23 09:30
500-237606-8	Station 7	Water	08/02/23 09:45	08/03/23 09:30

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

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-237606-1

Date Collected: 08/02/23 07:45

Matrix: Water

Date Received: 08/03/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	24		3.9	1.9	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluoropentanoic acid (PFPeA)	46		1.6	0.39	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorohexanoic acid (PFHxA)	54		1.6	0.46	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluoroheptanoic acid (PFHpA)	26		1.6	0.20	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorooctanoic acid (PFOA)	52		1.6	0.67	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorononanoic acid (PFNA)	4.2		1.6	0.21	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorodecanoic acid (PFDA)	1.1	J	1.6	0.24	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluoroundecanoic acid (PFUnA)	<0.87		1.6	0.87	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorododecanoic acid (PFDoA)	<0.43		1.6	0.43	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.0		1.6	1.0	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorotetradecanoic acid (PFTeA)	<0.58		1.6	0.58	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorobutanesulfonic acid (PFBS)	19	B	1.6	0.16	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluoropentanesulfonic acid (PFPeS)	28		1.6	0.24	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorohexanesulfonic acid (PFHxS)	220		1.6	0.45	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluoroheptanesulfonic acid (PFHpS)	8.8		1.6	0.15	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorononanesulfonic acid (PFNS)	<0.29		1.6	0.29	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.25		1.6	0.25	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.77		1.6	0.77	ng/L		08/04/23 12:52	08/09/23 06:56	1
Perfluorooctanesulfonamide (FOSA)	3.4		1.6	0.77	ng/L		08/04/23 12:52	08/09/23 06:56	1
NEtFOSA	<0.69		1.6	0.69	ng/L		08/04/23 12:52	08/09/23 06:56	1
NMeFOSA	<0.34		1.6	0.34	ng/L		08/04/23 12:52	08/09/23 06:56	1
NMeFOSAA	<0.95		3.9	0.95	ng/L		08/04/23 12:52	08/09/23 06:56	1
NEtFOSAA	<1.0		3.9	1.0	ng/L		08/04/23 12:52	08/09/23 06:56	1
NMeFOSE	<1.1		3.2	1.1	ng/L		08/04/23 12:52	08/09/23 06:56	1
NEtFOSE	<0.67		1.6	0.67	ng/L		08/04/23 12:52	08/09/23 06:56	1
4:2 FTS	0.62	J	1.6	0.19	ng/L		08/04/23 12:52	08/09/23 06:56	1
6:2 FTS	49		3.9	2.0	ng/L		08/04/23 12:52	08/09/23 06:56	1
8:2 FTS	19		1.6	0.36	ng/L		08/04/23 12:52	08/09/23 06:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.32		1.6	0.32	ng/L		08/04/23 12:52	08/09/23 06:56	1
HFPO-DA (GenX)	<1.2		3.2	1.2	ng/L		08/04/23 12:52	08/09/23 06:56	1
9Cl-PF3ONS	<0.19		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 06:56	1
11Cl-PF3OUdS	<0.25		1.6	0.25	ng/L		08/04/23 12:52	08/09/23 06:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	46		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C5 PFPeA	57		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C2 PFHxA	54		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C4 PFHpA	57		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C4 PFOA	54		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C5 PFNA	58		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C2 PFDA	60		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C2 PFUnA	57		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C2 PFDoA	48		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C2 PFTeDA	38		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C3 PFBS	58		25 - 150	08/04/23 12:52	08/09/23 06:56	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-237606-1

Date Collected: 08/02/23 07:45

Matrix: Water

Date Received: 08/03/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	57		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C4 PFOS	56		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C8 FOSA	64		10 - 150	08/04/23 12:52	08/09/23 06:56	1
d3-NMeFOSAA	56		25 - 150	08/04/23 12:52	08/09/23 06:56	1
d5-NEtFOSAA	59		25 - 150	08/04/23 12:52	08/09/23 06:56	1
d-N-MeFOSA-M	41		10 - 150	08/04/23 12:52	08/09/23 06:56	1
d-N-EtFOSA-M	39		10 - 150	08/04/23 12:52	08/09/23 06:56	1
d7-N-MeFOSE-M	37		10 - 150	08/04/23 12:52	08/09/23 06:56	1
d9-N-EtFOSE-M	35		10 - 150	08/04/23 12:52	08/09/23 06:56	1
M2-4:2 FTS	75		25 - 150	08/04/23 12:52	08/09/23 06:56	1
M2-6:2 FTS	74		25 - 150	08/04/23 12:52	08/09/23 06:56	1
M2-8:2 FTS	73		25 - 150	08/04/23 12:52	08/09/23 06:56	1
13C3 HFPO-DA	50		25 - 150	08/04/23 12:52	08/09/23 06:56	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanesulfonic acid (PFOS)	460		7.9	2.1	ng/L		08/04/23 12:52	08/15/23 18:49	5

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	57		25 - 150	08/04/23 12:52	08/15/23 18:49	5

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Outfall 21

Lab Sample ID: 500-237606-2

Date Collected: 08/02/23 08:05

Matrix: Water

Date Received: 08/03/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	270		3.9	1.9	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluoroheptanoic acid (PFHpA)	310		1.6	0.20	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluorononanoic acid (PFNA)	48		1.6	0.21	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluorodecanoic acid (PFDA)	6.1		1.6	0.24	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluoroundecanoic acid (PFUnA)	<0.86		1.6	0.86	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluorododecanoic acid (PFDoA)	<0.43		1.6	0.43	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluorotridecanoic acid (PFTrDA)	<1.0		1.6	1.0	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.57		1.6	0.57	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluorononanesulfonic acid (PFNS)	8.1		1.6	0.29	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.25		1.6	0.25	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.76		1.6	0.76	ng/L		08/04/23 12:52	08/09/23 07:07	1
Perfluorooctanesulfonamide (FOSA)	14		1.6	0.77	ng/L		08/04/23 12:52	08/09/23 07:07	1
NEtFOSA	<0.68		1.6	0.68	ng/L		08/04/23 12:52	08/09/23 07:07	1
NMeFOSA	<0.34		1.6	0.34	ng/L		08/04/23 12:52	08/09/23 07:07	1
NMeFOSAA	<0.94		3.9	0.94	ng/L		08/04/23 12:52	08/09/23 07:07	1
NEtFOSAA	<1.0		3.9	1.0	ng/L		08/04/23 12:52	08/09/23 07:07	1
NMeFOSE	<1.1		3.1	1.1	ng/L		08/04/23 12:52	08/09/23 07:07	1
NEtFOSE	<0.67		1.6	0.67	ng/L		08/04/23 12:52	08/09/23 07:07	1
4:2 FTS	18		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 07:07	1
8:2 FTS	250		1.6	0.36	ng/L		08/04/23 12:52	08/09/23 07:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.31		1.6	0.31	ng/L		08/04/23 12:52	08/09/23 07:07	1
HFPO-DA (GenX)	<1.2		3.1	1.2	ng/L		08/04/23 12:52	08/09/23 07:07	1
9Cl-PF3ONS	<0.19		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 07:07	1
11Cl-PF3OUdS	<0.25		1.6	0.25	ng/L		08/04/23 12:52	08/09/23 07:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	69		25 - 150	08/04/23 12:52	08/09/23 07:07	1
13C4 PFHpA	70		25 - 150	08/04/23 12:52	08/09/23 07:07	1
13C5 PFNA	57		25 - 150	08/04/23 12:52	08/09/23 07:07	1
13C2 PFDA	105		25 - 150	08/04/23 12:52	08/09/23 07:07	1
13C2 PFUnA	100		25 - 150	08/04/23 12:52	08/09/23 07:07	1
13C2 PFDoA	92		25 - 150	08/04/23 12:52	08/09/23 07:07	1
13C2 PFTeDA	72		25 - 150	08/04/23 12:52	08/09/23 07:07	1
13C4 PFOS	52		25 - 150	08/04/23 12:52	08/09/23 07:07	1
13C8 FOSA	116		10 - 150	08/04/23 12:52	08/09/23 07:07	1
d3-NMeFOSAA	104		25 - 150	08/04/23 12:52	08/09/23 07:07	1
d5-NEtFOSAA	113		25 - 150	08/04/23 12:52	08/09/23 07:07	1
d-N-MeFOSA-M	77		10 - 150	08/04/23 12:52	08/09/23 07:07	1
d-N-EtFOSA-M	73		10 - 150	08/04/23 12:52	08/09/23 07:07	1
d7-N-MeFOSE-M	67		10 - 150	08/04/23 12:52	08/09/23 07:07	1
d9-N-EtFOSE-M	62		10 - 150	08/04/23 12:52	08/09/23 07:07	1
M2-4:2 FTS	122		25 - 150	08/04/23 12:52	08/09/23 07:07	1
M2-8:2 FTS	133		25 - 150	08/04/23 12:52	08/09/23 07:07	1
13C3 HFPO-DA	86		25 - 150	08/04/23 12:52	08/09/23 07:07	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Outfall 21

Lab Sample ID: 500-237606-2

Date Collected: 08/02/23 08:05

Matrix: Water

Date Received: 08/03/23 09:30

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	970		160	38	ng/L		08/04/23 12:52	08/10/23 20:43	100
Perfluorohexanoic acid (PFHxA)	1100		160	46	ng/L		08/04/23 12:52	08/10/23 20:43	100
Perfluorooctanoic acid (PFOA)	800		160	67	ng/L		08/04/23 12:52	08/10/23 20:43	100
Perfluorobutanesulfonic acid (PFBS)	650	B	160	16	ng/L		08/04/23 12:52	08/10/23 20:43	100
Perfluoropentanesulfonic acid (PFPeS)	1000		160	24	ng/L		08/04/23 12:52	08/10/23 20:43	100
Perfluorohexanesulfonic acid (PFHxS)	7200		160	45	ng/L		08/04/23 12:52	08/10/23 20:43	100
Perfluoroheptanesulfonic acid (PFHpS)	210		160	15	ng/L		08/04/23 12:52	08/10/23 20:43	100
Perfluorooctanesulfonic acid (PFOS)	11000		160	42	ng/L		08/04/23 12:52	08/10/23 20:43	100
6:2 FTS	2500		390	200	ng/L		08/04/23 12:52	08/10/23 20:43	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	84		25 - 150				08/04/23 12:52	08/10/23 20:43	100
13C2 PFHxA	79		25 - 150				08/04/23 12:52	08/10/23 20:43	100
13C4 PFOA	78		25 - 150				08/04/23 12:52	08/10/23 20:43	100
13C3 PFBS	76		25 - 150				08/04/23 12:52	08/10/23 20:43	100
18O2 PFHxS	81		25 - 150				08/04/23 12:52	08/10/23 20:43	100
13C4 PFOS	99		25 - 150				08/04/23 12:52	08/10/23 20:43	100
M2-6:2 FTS	86		25 - 150				08/04/23 12:52	08/10/23 20:43	100

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-237606-3

Date Collected: 08/02/23 08:05

Matrix: Water

Date Received: 08/03/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	280		3.9	1.9	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluorononanoic acid (PFNA)	51		1.6	0.21	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluorodecanoic acid (PFDA)	5.9		1.6	0.24	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluoroundecanoic acid (PFUnA)	<0.86		1.6	0.86	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluorododecanoic acid (PFDoA)	<0.43		1.6	0.43	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluorotridecanoic acid (PFTrDA)	<1.0		1.6	1.0	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluorotetradecanoic acid (PFTeA)	<0.57		1.6	0.57	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluorononanesulfonic acid (PFNS)	8.1		1.6	0.29	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluorodecanesulfonic acid (PFDS)	<0.25		1.6	0.25	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.76		1.6	0.76	ng/L		08/04/23 12:52	08/09/23 07:18	1
Perfluorooctanesulfonamide (FOSA)	15		1.6	0.77	ng/L		08/04/23 12:52	08/09/23 07:18	1
NEtFOSA	<0.68		1.6	0.68	ng/L		08/04/23 12:52	08/09/23 07:18	1
NMeFOSA	<0.34		1.6	0.34	ng/L		08/04/23 12:52	08/09/23 07:18	1
NMeFOSAA	<0.94		3.9	0.94	ng/L		08/04/23 12:52	08/09/23 07:18	1
NEtFOSAA	<1.0		3.9	1.0	ng/L		08/04/23 12:52	08/09/23 07:18	1
NMeFOSE	<1.1		3.1	1.1	ng/L		08/04/23 12:52	08/09/23 07:18	1
NEtFOSE	<0.67		1.6	0.67	ng/L		08/04/23 12:52	08/09/23 07:18	1
4:2 FTS	21		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 07:18	1
8:2 FTS	240		1.6	0.36	ng/L		08/04/23 12:52	08/09/23 07:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.31		1.6	0.31	ng/L		08/04/23 12:52	08/09/23 07:18	1
HFPO-DA (GenX)	<1.2		3.1	1.2	ng/L		08/04/23 12:52	08/09/23 07:18	1
9Cl-PF3ONS	<0.19		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 07:18	1
11Cl-PF3OUdS	<0.25		1.6	0.25	ng/L		08/04/23 12:52	08/09/23 07:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	55		25 - 150	08/04/23 12:52	08/09/23 07:18	1
13C4 PFOA	66		25 - 150	08/04/23 12:52	08/09/23 07:18	1
13C5 PFNA	47		25 - 150	08/04/23 12:52	08/09/23 07:18	1
13C2 PFDA	88		25 - 150	08/04/23 12:52	08/09/23 07:18	1
13C2 PFUnA	78		25 - 150	08/04/23 12:52	08/09/23 07:18	1
13C2 PFDoA	67		25 - 150	08/04/23 12:52	08/09/23 07:18	1
13C2 PFTeDA	47		25 - 150	08/04/23 12:52	08/09/23 07:18	1
13C4 PFOS	40		25 - 150	08/04/23 12:52	08/09/23 07:18	1
13C8 FOSA	93		10 - 150	08/04/23 12:52	08/09/23 07:18	1
d3-NMeFOSAA	78		25 - 150	08/04/23 12:52	08/09/23 07:18	1
d5-NEtFOSAA	82		25 - 150	08/04/23 12:52	08/09/23 07:18	1
d-N-MeFOSA-M	50		10 - 150	08/04/23 12:52	08/09/23 07:18	1
d-N-EtFOSA-M	49		10 - 150	08/04/23 12:52	08/09/23 07:18	1
d7-N-MeFOSE-M	45		10 - 150	08/04/23 12:52	08/09/23 07:18	1
d9-N-EtFOSE-M	41		10 - 150	08/04/23 12:52	08/09/23 07:18	1
M2-4:2 FTS	88		25 - 150	08/04/23 12:52	08/09/23 07:18	1
M2-8:2 FTS	110		25 - 150	08/04/23 12:52	08/09/23 07:18	1
13C3 HFPO-DA	68		25 - 150	08/04/23 12:52	08/09/23 07:18	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	990		160	38	ng/L		08/04/23 12:52	08/10/23 20:53	100

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-237606-3

Date Collected: 08/02/23 08:05

Matrix: Water

Date Received: 08/03/23 09:30

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1300		160	45	ng/L		08/04/23 12:52	08/10/23 20:53	100
Perfluoroheptanoic acid (PFHpA)	330		160	20	ng/L		08/04/23 12:52	08/10/23 20:53	100
Perfluorooctanoic acid (PFOA)	770		160	67	ng/L		08/04/23 12:52	08/10/23 20:53	100
Perfluorobutanesulfonic acid (PFBS)	610	B	160	16	ng/L		08/04/23 12:52	08/10/23 20:53	100
Perfluoropentanesulfonic acid (PFPeS)	1100		160	24	ng/L		08/04/23 12:52	08/10/23 20:53	100
Perfluorohexanesulfonic acid (PFHxS)	6700		160	45	ng/L		08/04/23 12:52	08/10/23 20:53	100
Perfluoroheptanesulfonic acid (PFHpS)	240		160	15	ng/L		08/04/23 12:52	08/10/23 20:53	100
Perfluorooctanesulfonic acid (PFOS)	12000		160	42	ng/L		08/04/23 12:52	08/10/23 20:53	100
6:2 FTS	2100		390	200	ng/L		08/04/23 12:52	08/10/23 20:53	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	66		25 - 150				08/04/23 12:52	08/10/23 20:53	100
13C5 PFPeA	71		25 - 150				08/04/23 12:52	08/10/23 20:53	100
13C2 PFHxA	56		25 - 150				08/04/23 12:52	08/10/23 20:53	100
13C4 PFHpA	71		25 - 150				08/04/23 12:52	08/10/23 20:53	100
13C4 PFOA	62		25 - 150				08/04/23 12:52	08/10/23 20:53	100
13C5 PFNA	76		25 - 150				08/04/23 12:52	08/10/23 20:53	100
13C3 PFBS	61		25 - 150				08/04/23 12:52	08/10/23 20:53	100
18O2 PFHxS	71		25 - 150				08/04/23 12:52	08/10/23 20:53	100
13C4 PFOS	70		25 - 150				08/04/23 12:52	08/10/23 20:53	100
M2-6:2 FTS	84		25 - 150				08/04/23 12:52	08/10/23 20:53	100

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station ~~11~~ 10

Lab Sample ID: 500-237606-4

Date Collected: 08/02/23 09:00

Matrix: Water

Date Received: 08/03/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	89		4.0	1.9	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluoropentanoic acid (PFPeA)	280		1.6	0.39	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluoroheptanoic acid (PFHpA)	100		1.6	0.20	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorooctanoic acid (PFOA)	300		1.6	0.68	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorononanoic acid (PFNA)	12		1.6	0.22	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorodecanoic acid (PFDA)	1.2	J	1.6	0.25	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluoroundecanoic acid (PFUnA)	<0.88		1.6	0.88	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorododecanoic acid (PFDoA)	<0.44		1.6	0.44	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorotridecanoic acid (PFTrDA)	<1.0		1.6	1.0	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorotetradecanoic acid (PFTeA)	<0.59		1.6	0.59	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorobutanesulfonic acid (PFBS)	160	B	1.6	0.16	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluoropentanesulfonic acid (PFPeS)	220		1.6	0.24	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluoroheptanesulfonic acid (PFHpS)	64		1.6	0.15	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorononanesulfonic acid (PFNS)	0.69	J	1.6	0.30	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorodecanesulfonic acid (PFDS)	<0.26		1.6	0.26	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorododecanesulfonic acid (PFDoS)	<0.78		1.6	0.78	ng/L		08/04/23 12:52	08/09/23 07:30	1
Perfluorooctanesulfonamide (FOSA)	2.6		1.6	0.79	ng/L		08/04/23 12:52	08/09/23 07:30	1
NEtFOSA	<0.70		1.6	0.70	ng/L		08/04/23 12:52	08/09/23 07:30	1
NMeFOSA	<0.35		1.6	0.35	ng/L		08/04/23 12:52	08/09/23 07:30	1
NMeFOSAA	<0.96		4.0	0.96	ng/L		08/04/23 12:52	08/09/23 07:30	1
NEtFOSAA	<1.0		4.0	1.0	ng/L		08/04/23 12:52	08/09/23 07:30	1
NMeFOSE	<1.1		3.2	1.1	ng/L		08/04/23 12:52	08/09/23 07:30	1
NEtFOSE	<0.68		1.6	0.68	ng/L		08/04/23 12:52	08/09/23 07:30	1
4:2 FTS	11		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 07:30	1
8:2 FTS	34		1.6	0.37	ng/L		08/04/23 12:52	08/09/23 07:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.32		1.6	0.32	ng/L		08/04/23 12:52	08/09/23 07:30	1
HFPO-DA (GenX)	<1.2		3.2	1.2	ng/L		08/04/23 12:52	08/09/23 07:30	1
9CI-PF3ONS	<0.19		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 07:30	1
11CI-PF3OUdS	<0.26		1.6	0.26	ng/L		08/04/23 12:52	08/09/23 07:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	62		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C5 PFPeA	75		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C4 PFHpA	75		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C4 PFOA	76		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C5 PFNA	75		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C2 PFDA	92		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C2 PFUnA	84		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C2 PFDoA	90		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C2 PFTeDA	73		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C3 PFBS	83		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C4 PFOS	70		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C8 FOSA	99		10 - 150	08/04/23 12:52	08/09/23 07:30	1
d3-NMeFOSAA	89		25 - 150	08/04/23 12:52	08/09/23 07:30	1
d5-NEtFOSAA	98		25 - 150	08/04/23 12:52	08/09/23 07:30	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station 11 10

Lab Sample ID: 500-237606-4

Date Collected: 08/02/23 09:00

Matrix: Water

Date Received: 08/03/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d-N-MeFOSA-M	73		10 - 150	08/04/23 12:52	08/09/23 07:30	1
d-N-EtFOSA-M	74		10 - 150	08/04/23 12:52	08/09/23 07:30	1
d7-N-MeFOSE-M	70		10 - 150	08/04/23 12:52	08/09/23 07:30	1
d9-N-EtFOSE-M	69		10 - 150	08/04/23 12:52	08/09/23 07:30	1
M2-4:2 FTS	91		25 - 150	08/04/23 12:52	08/09/23 07:30	1
M2-8:2 FTS	108		25 - 150	08/04/23 12:52	08/09/23 07:30	1
13C3 HFPO-DA	79		25 - 150	08/04/23 12:52	08/09/23 07:30	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorohexanoic acid (PFHxA)	350		32	9.3	ng/L		08/04/23 12:52	08/15/23 19:00	20
Perfluorohexanesulfonic acid (PFHxS)	1500		32	9.2	ng/L		08/04/23 12:52	08/15/23 19:00	20
Perfluorooctanesulfonic acid (PFOS)	2400		32	8.7	ng/L		08/04/23 12:52	08/15/23 19:00	20
6:2 FTS	610		80	40	ng/L		08/04/23 12:52	08/15/23 19:00	20

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	68		25 - 150	08/04/23 12:52	08/15/23 19:00	20
18O2 PFHxS	77		25 - 150	08/04/23 12:52	08/15/23 19:00	20
13C4 PFOS	69		25 - 150	08/04/23 12:52	08/15/23 19:00	20
M2-6:2 FTS	78		25 - 150	08/04/23 12:52	08/15/23 19:00	20

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station 10 11

Lab Sample ID: 500-237606-5

Date Collected: 08/02/23 09:05

Matrix: Water

Date Received: 08/03/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	10		4.1	1.9	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluoropentanoic acid (PFPeA)	16		1.6	0.40	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorohexanoic acid (PFHxA)	18		1.6	0.47	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluoroheptanoic acid (PFHpA)	7.6		1.6	0.20	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorooctanoic acid (PFOA)	19		1.6	0.69	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorononanoic acid (PFNA)	1.2	J	1.6	0.22	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorodecanoic acid (PFDA)	0.58	J	1.6	0.25	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluoroundecanoic acid (PFUnA)	<0.89		1.6	0.89	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorododecanoic acid (PFDoA)	<0.45		1.6	0.45	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.6	1.1	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.59		1.6	0.59	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorobutanesulfonic acid (PFBS)	7.4	B	1.6	0.16	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluoropentanesulfonic acid (PFPeS)	8.3		1.6	0.24	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorohexanesulfonic acid (PFHxS)	72		1.6	0.46	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluoroheptanesulfonic acid (PFHpS)	1.7		1.6	0.15	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorooctanesulfonic acid (PFOS)	90		1.6	0.44	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorononanesulfonic acid (PFNS)	<0.30		1.6	0.30	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.26		1.6	0.26	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.79		1.6	0.79	ng/L		08/04/23 12:52	08/09/23 07:41	1
Perfluorooctanesulfonamide (FOSA)	<0.80		1.6	0.80	ng/L		08/04/23 12:52	08/09/23 07:41	1
NEtFOSA	<0.71		1.6	0.71	ng/L		08/04/23 12:52	08/09/23 07:41	1
NMeFOSA	<0.35		1.6	0.35	ng/L		08/04/23 12:52	08/09/23 07:41	1
NMeFOSAA	<0.97		4.1	0.97	ng/L		08/04/23 12:52	08/09/23 07:41	1
NEtFOSAA	<1.1		4.1	1.1	ng/L		08/04/23 12:52	08/09/23 07:41	1
NMeFOSE	<1.1		3.2	1.1	ng/L		08/04/23 12:52	08/09/23 07:41	1
NEtFOSE	<0.69		1.6	0.69	ng/L		08/04/23 12:52	08/09/23 07:41	1
4:2 FTS	<0.19		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 07:41	1
6:2 FTS	9.0		4.1	2.0	ng/L		08/04/23 12:52	08/09/23 07:41	1
8:2 FTS	2.0		1.6	0.37	ng/L		08/04/23 12:52	08/09/23 07:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.32		1.6	0.32	ng/L		08/04/23 12:52	08/09/23 07:41	1
HFPO-DA (GenX)	<1.2		3.2	1.2	ng/L		08/04/23 12:52	08/09/23 07:41	1
9CI-PF3ONS	<0.19		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 07:41	1
11CI-PF3OUdS	<0.26		1.6	0.26	ng/L		08/04/23 12:52	08/09/23 07:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	82		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C5 PFPeA	93		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C2 PFHxA	93		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C4 PFHpA	98		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C4 PFOA	96		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C5 PFNA	103		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C2 PFDA	107		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C2 PFUnA	107		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C2 PFDoA	96		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C2 PFTeDA	82		25 - 150	08/04/23 12:52	08/09/23 07:41	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station ~~10~~ 11

Lab Sample ID: 500-237606-5

Date Collected: 08/02/23 09:05

Matrix: Water

Date Received: 08/03/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	99		25 - 150	08/04/23 12:52	08/09/23 07:41	1
18O2 PFHxS	105		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C4 PFOS	101		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C8 FOSA	118		10 - 150	08/04/23 12:52	08/09/23 07:41	1
d3-NMeFOSAA	114		25 - 150	08/04/23 12:52	08/09/23 07:41	1
d5-NEtFOSAA	120		25 - 150	08/04/23 12:52	08/09/23 07:41	1
d-N-MeFOSA-M	87		10 - 150	08/04/23 12:52	08/09/23 07:41	1
d-N-EtFOSA-M	85		10 - 150	08/04/23 12:52	08/09/23 07:41	1
d7-N-MeFOSE-M	82		10 - 150	08/04/23 12:52	08/09/23 07:41	1
d9-N-EtFOSE-M	78		10 - 150	08/04/23 12:52	08/09/23 07:41	1
M2-4:2 FTS	119		25 - 150	08/04/23 12:52	08/09/23 07:41	1
M2-6:2 FTS	124		25 - 150	08/04/23 12:52	08/09/23 07:41	1
M2-8:2 FTS	141		25 - 150	08/04/23 12:52	08/09/23 07:41	1
13C3 HFPO-DA	89		25 - 150	08/04/23 12:52	08/09/23 07:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Field Blank

Lab Sample ID: 500-237606-6

Date Collected: 08/02/23 09:10

Matrix: Water

Date Received: 08/03/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.3	2.0	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorohexanoic acid (PFHxA)	<0.49		1.7	0.49	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorooctanoic acid (PFOA)	<0.72		1.7	0.72	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorobutanesulfonic acid (PFBS)	0.20	J B	1.7	0.17	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		08/04/23 12:52	08/09/23 07:52	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		08/04/23 12:52	08/09/23 07:52	1
NEtFOSA	<0.74		1.7	0.74	ng/L		08/04/23 12:52	08/09/23 07:52	1
NMeFOSA	<0.37		1.7	0.37	ng/L		08/04/23 12:52	08/09/23 07:52	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		08/04/23 12:52	08/09/23 07:52	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		08/04/23 12:52	08/09/23 07:52	1
NMeFOSE	<1.2		3.4	1.2	ng/L		08/04/23 12:52	08/09/23 07:52	1
NEtFOSE	<0.72		1.7	0.72	ng/L		08/04/23 12:52	08/09/23 07:52	1
4:2 FTS	<0.20		1.7	0.20	ng/L		08/04/23 12:52	08/09/23 07:52	1
6:2 FTS	<2.1		4.3	2.1	ng/L		08/04/23 12:52	08/09/23 07:52	1
8:2 FTS	<0.39		1.7	0.39	ng/L		08/04/23 12:52	08/09/23 07:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		08/04/23 12:52	08/09/23 07:52	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		08/04/23 12:52	08/09/23 07:52	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		08/04/23 12:52	08/09/23 07:52	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		08/04/23 12:52	08/09/23 07:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	68		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C5 PFPeA	69		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C2 PFHxA	71		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C4 PFHpA	75		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C4 PFOA	73		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C5 PFNA	75		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C2 PFDA	83		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C2 PFUnA	78		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C2 PFDoA	77		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C2 PFTeDA	65		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C3 PFBS	76		25 - 150	08/04/23 12:52	08/09/23 07:52	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Field Blank

Lab Sample ID: 500-237606-6

Date Collected: 08/02/23 09:10

Matrix: Water

Date Received: 08/03/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	81		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C4 PFOS	76		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C8 FOSA	83		10 - 150	08/04/23 12:52	08/09/23 07:52	1
d3-NMeFOSAA	81		25 - 150	08/04/23 12:52	08/09/23 07:52	1
d5-NEtFOSAA	88		25 - 150	08/04/23 12:52	08/09/23 07:52	1
d-N-MeFOSA-M	55		10 - 150	08/04/23 12:52	08/09/23 07:52	1
d-N-EtFOSA-M	54		10 - 150	08/04/23 12:52	08/09/23 07:52	1
d7-N-MeFOSE-M	61		10 - 150	08/04/23 12:52	08/09/23 07:52	1
d9-N-EtFOSE-M	60		10 - 150	08/04/23 12:52	08/09/23 07:52	1
M2-4:2 FTS	90		25 - 150	08/04/23 12:52	08/09/23 07:52	1
M2-6:2 FTS	94		25 - 150	08/04/23 12:52	08/09/23 07:52	1
M2-8:2 FTS	103		25 - 150	08/04/23 12:52	08/09/23 07:52	1
13C3 HFPO-DA	60		25 - 150	08/04/23 12:52	08/09/23 07:52	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station 4A

Lab Sample ID: 500-237606-7

Date Collected: 08/02/23 09:25

Matrix: Water

Date Received: 08/03/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	13		4.0	1.9	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluoropentanoic acid (PFPeA)	24		1.6	0.39	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorohexanoic acid (PFHxA)	29		1.6	0.46	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluoroheptanoic acid (PFHpA)	9.9		1.6	0.20	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorooctanoic acid (PFOA)	28		1.6	0.68	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorononanoic acid (PFNA)	1.6		1.6	0.22	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorodecanoic acid (PFDA)	0.64	J	1.6	0.25	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluoroundecanoic acid (PFUnA)	<0.88		1.6	0.88	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorododecanoic acid (PFDoA)	<0.44		1.6	0.44	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorotridecanoic acid (PFTrDA)	<1.0		1.6	1.0	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorotetradecanoic acid (PFTeA)	<0.58		1.6	0.58	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorobutanesulfonic acid (PFBS)	12	B	1.6	0.16	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluoropentanesulfonic acid (PFPeS)	15		1.6	0.24	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorohexanesulfonic acid (PFHxS)	130		1.6	0.46	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluoroheptanesulfonic acid (PFHpS)	3.3		1.6	0.15	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorooctanesulfonic acid (PFOS)	150		1.6	0.43	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorononanesulfonic acid (PFNS)	<0.30		1.6	0.30	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.26		1.6	0.26	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.78		1.6	0.78	ng/L		08/04/23 12:52	08/09/23 08:03	1
Perfluorooctanesulfonamide (FOSA)	<0.78		1.6	0.78	ng/L		08/04/23 12:52	08/09/23 08:03	1
NEtFOSA	<0.70		1.6	0.70	ng/L		08/04/23 12:52	08/09/23 08:03	1
NMeFOSA	<0.34		1.6	0.34	ng/L		08/04/23 12:52	08/09/23 08:03	1
NMeFOSAA	<0.96		4.0	0.96	ng/L		08/04/23 12:52	08/09/23 08:03	1
NEtFOSAA	<1.0		4.0	1.0	ng/L		08/04/23 12:52	08/09/23 08:03	1
NMeFOSE	<1.1		3.2	1.1	ng/L		08/04/23 12:52	08/09/23 08:03	1
NEtFOSE	<0.68		1.6	0.68	ng/L		08/04/23 12:52	08/09/23 08:03	1
4:2 FTS	0.40	J	1.6	0.19	ng/L		08/04/23 12:52	08/09/23 08:03	1
6:2 FTS	31		4.0	2.0	ng/L		08/04/23 12:52	08/09/23 08:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.32		1.6	0.32	ng/L		08/04/23 12:52	08/09/23 08:03	1
HFPO-DA (GenX)	<1.2		3.2	1.2	ng/L		08/04/23 12:52	08/09/23 08:03	1
9Cl-PF3ONS	<0.19		1.6	0.19	ng/L		08/04/23 12:52	08/09/23 08:03	1
11Cl-PF3OUdS	<0.26		1.6	0.26	ng/L		08/04/23 12:52	08/09/23 08:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	86		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C5 PFPeA	105		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C2 PFHxA	106		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C4 PFHpA	111		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C4 PFOA	112		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C5 PFNA	113		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C2 PFDA	121		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C2 PFUnA	111		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C2 PFDoA	99		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C2 PFTeDA	72		25 - 150				08/04/23 12:52	08/09/23 08:03	1
13C3 PFBS	113		25 - 150				08/04/23 12:52	08/09/23 08:03	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station 4A

Lab Sample ID: 500-237606-7

Date Collected: 08/02/23 09:25

Matrix: Water

Date Received: 08/03/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	115		25 - 150	08/04/23 12:52	08/09/23 08:03	1
13C4 PFOS	119		25 - 150	08/04/23 12:52	08/09/23 08:03	1
13C8 FOSA	128		10 - 150	08/04/23 12:52	08/09/23 08:03	1
d3-NMeFOSAA	119		25 - 150	08/04/23 12:52	08/09/23 08:03	1
d5-NEtFOSAA	123		25 - 150	08/04/23 12:52	08/09/23 08:03	1
d-N-MeFOSA-M	90		10 - 150	08/04/23 12:52	08/09/23 08:03	1
d-N-EtFOSA-M	86		10 - 150	08/04/23 12:52	08/09/23 08:03	1
d7-N-MeFOSE-M	73		10 - 150	08/04/23 12:52	08/09/23 08:03	1
d9-N-EtFOSE-M	68		10 - 150	08/04/23 12:52	08/09/23 08:03	1
M2-4:2 FTS	148		25 - 150	08/04/23 12:52	08/09/23 08:03	1
M2-6:2 FTS	137		25 - 150	08/04/23 12:52	08/09/23 08:03	1
13C3 HFPO-DA	93		25 - 150	08/04/23 12:52	08/09/23 08:03	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RA

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
8:2 FTS	3.1		1.6	0.37	ng/L		08/04/23 12:52	08/10/23 19:32	1

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-8:2 FTS	116		25 - 150	08/04/23 12:52	08/10/23 19:32	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station 7

Lab Sample ID: 500-237606-8

Date Collected: 08/02/23 09:45

Matrix: Water

Date Received: 08/03/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	14		4.0	1.9	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluoropentanoic acid (PFPeA)	29		1.6	0.39	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorohexanoic acid (PFHxA)	35		1.6	0.46	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluoroheptanoic acid (PFHpA)	12		1.6	0.20	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorooctanoic acid (PFOA)	34		1.6	0.67	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorononanoic acid (PFNA)	2.0		1.6	0.21	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorodecanoic acid (PFDA)	0.73	J	1.6	0.24	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluoroundecanoic acid (PFUnA)	<0.87		1.6	0.87	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorododecanoic acid (PFDoA)	<0.43		1.6	0.43	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorotridecanoic acid (PFTrDA)	<1.0		1.6	1.0	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.58		1.6	0.58	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorobutanesulfonic acid (PFBS)	15	B	1.6	0.16	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluoropentanesulfonic acid (PFPeS)	20		1.6	0.24	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorohexanesulfonic acid (PFHxS)	150		1.6	0.45	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluoroheptanesulfonic acid (PFHpS)	4.5		1.6	0.15	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorooctanesulfonic acid (PFOS)	210		1.6	0.43	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorononanesulfonic acid (PFNS)	<0.29		1.6	0.29	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.25		1.6	0.25	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.77		1.6	0.77	ng/L		08/04/23 12:59	08/09/23 08:14	1
Perfluorooctanesulfonamide (FOSA)	<0.77		1.6	0.77	ng/L		08/04/23 12:59	08/09/23 08:14	1
NEtFOSA	<0.69		1.6	0.69	ng/L		08/04/23 12:59	08/09/23 08:14	1
NMeFOSA	<0.34		1.6	0.34	ng/L		08/04/23 12:59	08/09/23 08:14	1
NMeFOSAA	<0.95		4.0	0.95	ng/L		08/04/23 12:59	08/09/23 08:14	1
NEtFOSAA	<1.0		4.0	1.0	ng/L		08/04/23 12:59	08/09/23 08:14	1
NMeFOSE	<1.1		3.2	1.1	ng/L		08/04/23 12:59	08/09/23 08:14	1
NEtFOSE	<0.67		1.6	0.67	ng/L		08/04/23 12:59	08/09/23 08:14	1
4:2 FTS	0.56	J	1.6	0.19	ng/L		08/04/23 12:59	08/09/23 08:14	1
6:2 FTS	44		4.0	2.0	ng/L		08/04/23 12:59	08/09/23 08:14	1
8:2 FTS	3.1		1.6	0.36	ng/L		08/04/23 12:59	08/09/23 08:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.32		1.6	0.32	ng/L		08/04/23 12:59	08/09/23 08:14	1
HFPO-DA (GenX)	<1.2		3.2	1.2	ng/L		08/04/23 12:59	08/09/23 08:14	1
9CI-PF3ONS	<0.19		1.6	0.19	ng/L		08/04/23 12:59	08/09/23 08:14	1
11CI-PF3OUdS	<0.25		1.6	0.25	ng/L		08/04/23 12:59	08/09/23 08:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	54		25 - 150				08/04/23 12:59	08/09/23 08:14	1
13C5 PFPeA	70		25 - 150				08/04/23 12:59	08/09/23 08:14	1
13C2 PFHxA	71		25 - 150				08/04/23 12:59	08/09/23 08:14	1
13C4 PFHpA	72		25 - 150				08/04/23 12:59	08/09/23 08:14	1
13C4 PFOA	75		25 - 150				08/04/23 12:59	08/09/23 08:14	1
13C5 PFNA	76		25 - 150				08/04/23 12:59	08/09/23 08:14	1
13C2 PFDA	81		25 - 150				08/04/23 12:59	08/09/23 08:14	1
13C2 PFUnA	75		25 - 150				08/04/23 12:59	08/09/23 08:14	1
13C2 PFDoA	70		25 - 150				08/04/23 12:59	08/09/23 08:14	1
13C2 PFTeDA	53		25 - 150				08/04/23 12:59	08/09/23 08:14	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Station 7

Lab Sample ID: 500-237606-8

Date Collected: 08/02/23 09:45

Matrix: Water

Date Received: 08/03/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	73		25 - 150	08/04/23 12:59	08/09/23 08:14	1
18O2 PFHxS	79		25 - 150	08/04/23 12:59	08/09/23 08:14	1
13C4 PFOS	78		25 - 150	08/04/23 12:59	08/09/23 08:14	1
13C8 FOSA	87		10 - 150	08/04/23 12:59	08/09/23 08:14	1
d3-NMeFOSAA	74		25 - 150	08/04/23 12:59	08/09/23 08:14	1
d5-NEtFOSAA	85		25 - 150	08/04/23 12:59	08/09/23 08:14	1
d-N-MeFOSA-M	60		10 - 150	08/04/23 12:59	08/09/23 08:14	1
d-N-EtFOSA-M	57		10 - 150	08/04/23 12:59	08/09/23 08:14	1
d7-N-MeFOSE-M	54		10 - 150	08/04/23 12:59	08/09/23 08:14	1
d9-N-EtFOSE-M	49		10 - 150	08/04/23 12:59	08/09/23 08:14	1
M2-4:2 FTS	93		25 - 150	08/04/23 12:59	08/09/23 08:14	1
M2-6:2 FTS	92		25 - 150	08/04/23 12:59	08/09/23 08:14	1
M2-8:2 FTS	104		25 - 150	08/04/23 12:59	08/09/23 08:14	1
13C3 HFPO-DA	62		25 - 150	08/04/23 12:59	08/09/23 08:14	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Qualifiers

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

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

QC Association Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

LCMS

Prep Batch: 696276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237606-1 - DL	Outfall 32	Total/NA	Water	3535	
500-237606-1	Outfall 32	Total/NA	Water	3535	
500-237606-2 - DL	Outfall 21	Total/NA	Water	3535	
500-237606-2	Outfall 21	Total/NA	Water	3535	
500-237606-3 - DL	Outfall 21 DUP	Total/NA	Water	3535	
500-237606-3	Outfall 21 DUP	Total/NA	Water	3535	
500-237606-4	Station 11 10	Total/NA	Water	3535	
500-237606-4 - DL	Station 11 10	Total/NA	Water	3535	
500-237606-5	Station 10 11	Total/NA	Water	3535	
500-237606-6	Field Blank	Total/NA	Water	3535	
500-237606-7 - RA	Station 4A	Total/NA	Water	3535	
500-237606-7	Station 4A	Total/NA	Water	3535	
500-237606-8	Station 7	Total/NA	Water	3535	
MB 320-696276/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-696276/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-696276/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 697044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237606-1	Outfall 32	Total/NA	Water	537 (modified)	696276
500-237606-2	Outfall 21	Total/NA	Water	537 (modified)	696276
500-237606-3	Outfall 21 DUP	Total/NA	Water	537 (modified)	696276
500-237606-4	Station 11 10	Total/NA	Water	537 (modified)	696276
500-237606-5	Station 10 11	Total/NA	Water	537 (modified)	696276
500-237606-6	Field Blank	Total/NA	Water	537 (modified)	696276
500-237606-7	Station 4A	Total/NA	Water	537 (modified)	696276
500-237606-8	Station 7	Total/NA	Water	537 (modified)	696276
MB 320-696276/1-A	Method Blank	Total/NA	Water	537 (modified)	696276
LCS 320-696276/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	696276
LCSD 320-696276/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	696276

Analysis Batch: 697520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237606-2 - DL	Outfall 21	Total/NA	Water	537 (modified)	696276
500-237606-3 - DL	Outfall 21 DUP	Total/NA	Water	537 (modified)	696276
500-237606-7 - RA	Station 4A	Total/NA	Water	537 (modified)	696276

Analysis Batch: 698904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237606-1 - DL	Outfall 32	Total/NA	Water	537 (modified)	696276
500-237606-4 - DL	Station 11 10	Total/NA	Water	537 (modified)	696276

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-696276/1-A
Matrix: Water
Analysis Batch: 697044

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 696276

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorobutanesulfonic acid (PFBS)	0.352	J	2.0	0.20	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		08/04/23 12:52	08/09/23 04:31	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		08/04/23 12:52	08/09/23 04:31	1
NEtFOSA	<0.87		2.0	0.87	ng/L		08/04/23 12:52	08/09/23 04:31	1
NMeFOSA	<0.43		2.0	0.43	ng/L		08/04/23 12:52	08/09/23 04:31	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		08/04/23 12:52	08/09/23 04:31	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		08/04/23 12:52	08/09/23 04:31	1
NMeFOSE	<1.4		4.0	1.4	ng/L		08/04/23 12:52	08/09/23 04:31	1
NEtFOSE	<0.85		2.0	0.85	ng/L		08/04/23 12:52	08/09/23 04:31	1
4:2 FTS	<0.24		2.0	0.24	ng/L		08/04/23 12:52	08/09/23 04:31	1
6:2 FTS	<2.5		5.0	2.5	ng/L		08/04/23 12:52	08/09/23 04:31	1
8:2 FTS	<0.46		2.0	0.46	ng/L		08/04/23 12:52	08/09/23 04:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		08/04/23 12:52	08/09/23 04:31	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		08/04/23 12:52	08/09/23 04:31	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		08/04/23 12:52	08/09/23 04:31	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		08/04/23 12:52	08/09/23 04:31	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	72		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C5 PFPeA	73		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C2 PFHxA	74		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C4 PFHpA	78		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C4 PFOA	73		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C5 PFNA	79		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C2 PFDA	80		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C2 PFUnA	80		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C2 PFDoA	77		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C2 PFTeDA	69		25 - 150	08/04/23 12:52	08/09/23 04:31	1

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

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

Lab Sample ID: MB 320-696276/1-A
Matrix: Water
Analysis Batch: 697044

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 696276

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	71		25 - 150	08/04/23 12:52	08/09/23 04:31	1
18O2 PFHxS	81		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C4 PFOS	78		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C8 FOSA	84		10 - 150	08/04/23 12:52	08/09/23 04:31	1
d3-NMeFOSAA	81		25 - 150	08/04/23 12:52	08/09/23 04:31	1
d5-NEtFOSAA	88		25 - 150	08/04/23 12:52	08/09/23 04:31	1
d-N-MeFOSA-M	54		10 - 150	08/04/23 12:52	08/09/23 04:31	1
d-N-EtFOSA-M	54		10 - 150	08/04/23 12:52	08/09/23 04:31	1
d7-N-MeFOSE-M	64		10 - 150	08/04/23 12:52	08/09/23 04:31	1
d9-N-EtFOSE-M	64		10 - 150	08/04/23 12:52	08/09/23 04:31	1
M2-4:2 FTS	92		25 - 150	08/04/23 12:52	08/09/23 04:31	1
M2-6:2 FTS	90		25 - 150	08/04/23 12:52	08/09/23 04:31	1
M2-8:2 FTS	97		25 - 150	08/04/23 12:52	08/09/23 04:31	1
13C3 HFPO-DA	71		25 - 150	08/04/23 12:52	08/09/23 04:31	1

Lab Sample ID: LCS 320-696276/2-A
Matrix: Water
Analysis Batch: 697044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 696276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	40.8		ng/L		102	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	38.9		ng/L		97	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.3		ng/L		103	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	39.0		ng/L		98	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.9		ng/L		105	60 - 135
Perfluorononanoic acid (PFNA)	40.0	40.3		ng/L		101	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.9		ng/L		102	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	44.5		ng/L		111	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.9		ng/L		110	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	40.1		ng/L		100	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	41.5		ng/L		104	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	38.0		ng/L		107	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	42.6		ng/L		113	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.2		ng/L		99	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.9		ng/L		102	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	37.6		ng/L		101	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	39.5		ng/L		103	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	39.7		ng/L		103	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	34.8		ng/L		90	60 - 135

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

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

Lab Sample ID: LCS 320-696276/2-A
Matrix: Water
Analysis Batch: 697044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 696276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	36.3		ng/L		91	60 - 135
NEtFOSA	40.0	39.9		ng/L		100	60 - 135
NMeFOSA	40.0	38.6		ng/L		97	60 - 135
NMeFOSAA	40.0	42.0		ng/L		105	60 - 135
NEtFOSAA	40.0	39.4		ng/L		99	60 - 135
NMeFOSE	40.0	39.4		ng/L		98	60 - 135
NEtFOSE	40.0	37.4		ng/L		94	60 - 135
4:2 FTS	37.5	38.1		ng/L		102	60 - 135
6:2 FTS	38.1	36.7		ng/L		96	60 - 135
8:2 FTS	38.4	42.3		ng/L		110	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	39.2		ng/L		104	60 - 135
HFPO-DA (GenX)	40.0	39.4		ng/L		98	60 - 135
9Cl-PF3ONS	37.4	38.3		ng/L		103	60 - 135
11Cl-PF3OUdS	37.8	36.7		ng/L		97	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	66		25 - 150
13C5 PFPeA	71		25 - 150
13C2 PFHxA	65		25 - 150
13C4 PFHpA	70		25 - 150
13C4 PFOA	68		25 - 150
13C5 PFNA	73		25 - 150
13C2 PFDA	75		25 - 150
13C2 PFUnA	75		25 - 150
13C2 PFDoA	73		25 - 150
13C2 PFTeDA	65		25 - 150
13C3 PFBS	63		25 - 150
18O2 PFHxS	74		25 - 150
13C4 PFOS	73		25 - 150
13C8 FOSA	83		10 - 150
d3-NMeFOSAA	74		25 - 150
d5-NEtFOSAA	81		25 - 150
d-N-MeFOSA-M	48		10 - 150
d-N-EtFOSA-M	48		10 - 150
d7-N-MeFOSE-M	61		10 - 150
d9-N-EtFOSE-M	59		10 - 150
M2-4:2 FTS	82		25 - 150
M2-6:2 FTS	85		25 - 150
M2-8:2 FTS	89		25 - 150
13C3 HFPO-DA	62		25 - 150

Lab Sample ID: LCSD 320-696276/3-A
Matrix: Water
Analysis Batch: 697044

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 696276

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	40.0	42.1		ng/L		105	60 - 135	3	30

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

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

Lab Sample ID: LCSD 320-696276/3-A
Matrix: Water
Analysis Batch: 697044

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 696276

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	40.0	39.6		ng/L		99	60 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	43.1		ng/L		108	60 - 135	4	30
Perfluoroheptanoic acid (PFHpA)	40.0	39.1		ng/L		98	60 - 135	0	30
Perfluorooctanoic acid (PFOA)	40.0	40.3		ng/L		101	60 - 135	4	30
Perfluorononanoic acid (PFNA)	40.0	40.0		ng/L		100	60 - 135	1	30
Perfluorodecanoic acid (PFDA)	40.0	43.9		ng/L		110	60 - 135	7	30
Perfluoroundecanoic acid (PFUnA)	40.0	44.8		ng/L		112	60 - 135	1	30
Perfluorododecanoic acid (PFDoA)	40.0	44.4		ng/L		111	60 - 135	1	30
Perfluorotridecanoic acid (PFTrDA)	40.0	39.0		ng/L		97	60 - 135	3	30
Perfluorotetradecanoic acid (PFTeA)	40.0	43.2		ng/L		108	60 - 135	4	30
Perfluorobutanesulfonic acid (PFBS)	35.5	35.7		ng/L		100	60 - 135	6	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	41.4		ng/L		110	60 - 135	3	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.7		ng/L		101	60 - 135	1	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.9		ng/L		102	60 - 135	0	30
Perfluorooctanesulfonic acid (PFOS)	37.2	38.9		ng/L		104	60 - 135	3	30
Perfluorononanesulfonic acid (PFNS)	38.5	40.9		ng/L		106	60 - 135	3	30
Perfluorodecanesulfonic acid (PFDS)	38.6	39.8		ng/L		103	60 - 135	0	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.0		ng/L		90	60 - 135	1	30
Perfluorooctanesulfonamide (FOSA)	40.0	39.0		ng/L		98	60 - 135	7	30
NEtFOSA	40.0	39.9		ng/L		100	60 - 135	0	30
NMeFOSA	40.0	42.3		ng/L		106	60 - 135	9	30
NMeFOSAA	40.0	42.7		ng/L		107	60 - 135	2	30
NEtFOSAA	40.0	41.0		ng/L		102	60 - 135	4	30
NMeFOSE	40.0	40.6		ng/L		101	60 - 135	3	30
NEtFOSE	40.0	37.7		ng/L		94	60 - 135	1	30
4:2 FTS	37.5	36.8		ng/L		98	60 - 135	3	30
6:2 FTS	38.1	38.6		ng/L		101	60 - 135	5	30
8:2 FTS	38.4	41.0		ng/L		107	60 - 135	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	36.3		ng/L		96	60 - 135	8	30
HFPO-DA (GenX)	40.0	36.5		ng/L		91	60 - 135	7	30
9Cl-PF3ONS	37.4	38.5		ng/L		103	60 - 135	1	30
11Cl-PF3OUdS	37.8	36.6		ng/L		97	60 - 135	0	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	66		25 - 150
13C5 PFPeA	70		25 - 150
13C2 PFHxA	69		25 - 150
13C4 PFHpA	74		25 - 150

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

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

Lab Sample ID: LCSD 320-696276/3-A
 Matrix: Water
 Analysis Batch: 697044

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 696276

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	74		25 - 150
13C5 PFNA	75		25 - 150
13C2 PFDA	77		25 - 150
13C2 PFUnA	76		25 - 150
13C2 PFDoA	78		25 - 150
13C2 PFTeDA	65		25 - 150
13C3 PFBS	72		25 - 150
18O2 PFHxS	77		25 - 150
13C4 PFOS	75		25 - 150
13C8 FOSA	78		10 - 150
d3-NMeFOSAA	75		25 - 150
d5-NEtFOSAA	84		25 - 150
d-N-MeFOSA-M	52		10 - 150
d-N-EtFOSA-M	58		10 - 150
d7-N-MeFOSE-M	59		10 - 150
d9-N-EtFOSE-M	59		10 - 150
M2-4:2 FTS	85		25 - 150
M2-6:2 FTS	88		25 - 150
M2-8:2 FTS	91		25 - 150
13C3 HFPO-DA	67		25 - 150



Lab Chronicle

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-237606-1

Date Collected: 08/02/23 07:45

Matrix: Water

Date Received: 08/03/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)		1	697044	C1P	EET SAC	08/09/23 06:56
Total/NA	Prep	3535	DL		696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)	DL	5	698904	C1P	EET SAC	08/15/23 18:49

Client Sample ID: Outfall 21

Lab Sample ID: 500-237606-2

Date Collected: 08/02/23 08:05

Matrix: Water

Date Received: 08/03/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)	DL	100	697520	K1S	EET SAC	08/10/23 20:43
Total/NA	Prep	3535			696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)		1	697044	C1P	EET SAC	08/09/23 07:07

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-237606-3

Date Collected: 08/02/23 08:05

Matrix: Water

Date Received: 08/03/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)	DL	100	697520	K1S	EET SAC	08/10/23 20:53
Total/NA	Prep	3535			696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)		1	697044	C1P	EET SAC	08/09/23 07:18

Client Sample ID: Station ~~11~~ 10

Lab Sample ID: 500-237606

Date Collected: 08/02/23 09:00

Matrix: Water

Date Received: 08/03/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)		1	697044	C1P	EET SAC	08/09/23 07:30
Total/NA	Prep	3535	DL		696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)	DL	20	698904	C1P	EET SAC	08/15/23 19:00

Client Sample ID: Station ~~10~~ 11

Lab Sample ID: 500-237606

Date Collected: 08/02/23 09:05

Matrix: Water

Date Received: 08/03/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)		1	697044	C1P	EET SAC	08/09/23 07:41

Lab Chronicle

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Client Sample ID: Field Blank

Lab Sample ID: 500-237606-6

Date Collected: 08/02/23 09:10

Matrix: Water

Date Received: 08/03/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)		1	697044	C1P	EET SAC	08/09/23 07:52

Client Sample ID: Station 4A

Lab Sample ID: 500-237606-7

Date Collected: 08/02/23 09:25

Matrix: Water

Date Received: 08/03/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	RA		696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)	RA	1	697520	K1S	EET SAC	08/10/23 19:32
Total/NA	Prep	3535			696276	BLR	EET SAC	08/04/23 12:52
Total/NA	Analysis	537 (modified)		1	697044	C1P	EET SAC	08/09/23 08:03

Client Sample ID: Station 7

Lab Sample ID: 500-237606-8

Date Collected: 08/02/23 09:45

Matrix: Water

Date Received: 08/03/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			696276	BLR	EET SAC	08/04/23 12:59
Total/NA	Analysis	537 (modified)		1	697044	C1P	EET SAC	08/09/23 08:14

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

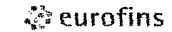
Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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

Eurofins Sacramento

880 Riverside Parkway
West Sacramento CA 95605
Phone: 916-373-5600 Fax: 916-372-1059


Chain of Custody Record



Environment Testing

Client Information		Sampler <i>Ryan Matzok</i>	Lab PM Fredrick Sandie	500-237606 COC	COC No. 500-114711-46810 1																																																																																																
Client Contact <i>Ryan Matzok / Eric Oelkers</i>		Phone <i>608 400 9597</i>	E-Mail Sandra.Fredrick@et.eurofinsus.com	State or Origin	Page Page 1 of 1																																																																																																
Company SCS Engineers		PWSID:	Analysis Requested																																																																																																		
Address 2630 Dairy Drive		Due Date Requested	<table border="1"> <tr> <td rowspan="8">Field Filtered Sample (Yes or No)</td> <td rowspan="8">Paragon MS USB (Yes or No)</td> <td rowspan="8">PCF_IDA_WI - PFAS Standard List (33 analytes)</td> <td colspan="3">Job # <i>500-237606</i></td> </tr> <tr> <td colspan="3"> Preservation Codes A - HCL M Hexane B - NaOH N None C - Zn Acetate O - AsNaO2 D Nitric Acid P - Na2O4S E NaHSO4 Q - Na2SO3 F - MeOH R Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U Acetone J - DI Water V - MCAA K - EDTA W pH 4-5 L EDA Y Trizma Z - other (specify) </td> </tr> <tr> <td colspan="3">Other:</td> </tr> <tr> <td colspan="3">Special Instructions/Note.</td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td colspan="3"> </td> </tr> </table>			Field Filtered Sample (Yes or No)	Paragon MS USB (Yes or No)	PCF_IDA_WI - PFAS Standard List (33 analytes)	Job # <i>500-237606</i>			Preservation Codes A - HCL M Hexane B - NaOH N None C - Zn Acetate O - AsNaO2 D Nitric Acid P - Na2O4S E NaHSO4 Q - Na2SO3 F - MeOH R Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U Acetone J - DI Water V - MCAA K - EDTA W pH 4-5 L EDA Y Trizma Z - other (specify)			Other:			Special Instructions/Note.																																																																																			
Field Filtered Sample (Yes or No)	Paragon MS USB (Yes or No)	PCF_IDA_WI - PFAS Standard List (33 analytes)							Job # <i>500-237606</i>																																																																																												
									Preservation Codes A - HCL M Hexane B - NaOH N None C - Zn Acetate O - AsNaO2 D Nitric Acid P - Na2O4S E NaHSO4 Q - Na2SO3 F - MeOH R Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U Acetone J - DI Water V - MCAA K - EDTA W pH 4-5 L EDA Y Trizma Z - other (specify)																																																																																												
									Other:																																																																																												
									Special Instructions/Note.																																																																																												
City Madison		TAT Requested (days):																																																																																																			
State, Zip WI, 53718-6751		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																			
Phone		PO # 25221127 00																																																																																																			
Email RMatzok@scsengineers.com / EOelkers@scsengineers.com		WO #																																																																																																			
Project Name Dane County Airport - 25221127 00		Project # 50021708																																																																																																			
Site:		SSOW#:																																																																																																			
<table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, AM=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Paragon MS USB (Yes or No)</th> <th>PCF_IDA_WI - PFAS Standard List (33 analytes)</th> <th>Total Number of Containers</th> <th>Special Instructions/Note.</th> </tr> </thead> <tbody> <tr> <td><i>1 Outfall 32</i></td> <td><i>8/2/23</i></td> <td><i>745</i></td> <td><i>G</i></td> <td><i>Water</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> </tr> <tr> <td><i>2 Outfall 21</i></td> <td><i> </i></td> <td><i>805</i></td> <td><i> </i></td> <td><i>Water</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> </tr> <tr> <td><i>3 Outfall 21 DUP</i></td> <td><i> </i></td> <td><i>805</i></td> <td><i> </i></td> <td><i>Water</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> </tr> <tr> <td><i>4 Station 10 10</i></td> <td><i> </i></td> <td><i>900</i></td> <td><i> </i></td> <td><i>Water</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> </tr> <tr> <td><i>5 Station 11 11</i></td> <td><i> </i></td> <td><i>905</i></td> <td><i> </i></td> <td><i>Water</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> </tr> <tr> <td><i>6 Field Blank</i></td> <td><i> </i></td> <td><i>910</i></td> <td><i> </i></td> <td><i>Water</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> </tr> <tr> <td><i>7 Station 4A</i></td> <td><i> </i></td> <td><i>925</i></td> <td><i> </i></td> <td><i>Water</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> </tr> <tr> <td><i>8 Station 7</i></td> <td><i>↓</i></td> <td><i>945</i></td> <td><i>↓</i></td> <td><i>Water</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><i>Water</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, AM=Air)	Field Filtered Sample (Yes or No)	Paragon MS USB (Yes or No)	PCF_IDA_WI - PFAS Standard List (33 analytes)	Total Number of Containers	Special Instructions/Note.	<i>1 Outfall 32</i>	<i>8/2/23</i>	<i>745</i>	<i>G</i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>2 Outfall 21</i>	<i> </i>	<i>805</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>3 Outfall 21 DUP</i>	<i> </i>	<i>805</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>4 Station 10 10</i>	<i> </i>	<i>900</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>5 Station 11 11</i>	<i> </i>	<i>905</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>6 Field Blank</i>	<i> </i>	<i>910</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>7 Station 4A</i>	<i> </i>	<i>925</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>8 Station 7</i>	<i>↓</i>	<i>945</i>	<i>↓</i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>							<i>Water</i>					
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, AM=Air)	Field Filtered Sample (Yes or No)	Paragon MS USB (Yes or No)	PCF_IDA_WI - PFAS Standard List (33 analytes)	Total Number of Containers	Special Instructions/Note.																																																																																												
<i>1 Outfall 32</i>	<i>8/2/23</i>	<i>745</i>	<i>G</i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																														
<i>2 Outfall 21</i>	<i> </i>	<i>805</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																														
<i>3 Outfall 21 DUP</i>	<i> </i>	<i>805</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																														
<i>4 Station 10 10</i>	<i> </i>	<i>900</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																														
<i>5 Station 11 11</i>	<i> </i>	<i>905</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																														
<i>6 Field Blank</i>	<i> </i>	<i>910</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																														
<i>7 Station 4A</i>	<i> </i>	<i>925</i>	<i> </i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																														
<i>8 Station 7</i>	<i>↓</i>	<i>945</i>	<i>↓</i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																														
				<i>Water</i>																																																																																																	
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																																																																	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																																																	
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements.																																																																																																	
Empty Kit Relinquished by		Date	Time.	Method of Shipment:																																																																																																	
Relinquished by <i>[Signature]</i>		Date/Time: <i>8/2/23 1100</i>	Company: <i>1100</i>	Received by <i>[Signature]</i> Date/Time: <i>8/3/23 950</i> Company:																																																																																																	
Relinquished by		Date/Time:	Company:	Received by Date/Time: Company:																																																																																																	
Relinquished by		Date/Time:	Company:	Received by Date/Time: Company:																																																																																																	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>1-9</i>																																																																																																	

Chain of Custody Record

Client Information Client Contact: Ryan Matzruk Company: Eric Dellers Address: 2830 Dairy Drive City: Madison State, Zip: WI 53718-6751 Phone: 25221127 00 Email: RMatzruk@sceengineers.com / Edellers@sceengineers.com Project Name: Dane County Airport 25221127 00 Site:		Lab PM: Fredrick, Sandie E-Mail: Sandra.Fredrick@eurofins.com Carrier Tracking No(s): 500-114711-46810 1 State of Origin:	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 25221127 00 WO #: 50021708 Project #: 25221127 00 SSO#:		Analysis Requested  500-237606 Chain of Custody	
Sample Identification Sample ID: Outfall 32 Outfall 21 Outfall 21 Dup Station 44 Station 11 Field Blank Station 4A Station 7		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N Perform IIS/MSD (Yes or No) <input checked="" type="checkbox"/> X PC, IJA, W, P, AS, Standard List (33 analytes) <input checked="" type="checkbox"/> X Total Number of Containers: <input checked="" type="checkbox"/> X	
Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)
8/2/23	745	G	Water
	805		Water
	805		Water
	900		Water
	905		Water
	910		Water
	925		Water
	945		Water
			Water

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV Other (specify)

Empty Kit Relinquished by: _____ Date: _____ Time: _____
Relinquished by: *[Signature]* Date: 8/2/23 1100 Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: 19

Special Instructions/Note:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Method of Shipment: _____
 Date/Time: 8/2/23 930 Company: _____
 Date/Time: _____ Company: _____
 Date/Time: _____ Company: _____



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-237606-1

SDG Number:

Login Number: 237606

List Number: 1

Creator: Pratali, Sandra A

List Source: Eurofins Sacramento

List Creation: 08/03/23 06:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

Sacramento Sample Receiving Notes



500-237606 Field Sheet

Tracking # 6578 9771 0982

Job. _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal Cooler Custody Seal Temperature & corrected Temperature & other observations. File in the job folder with the COC

Therm ID <u>L10</u> Corr Factor (+/-) _____ °C	Notes. _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Ice <input checked="" type="checkbox"/> Wet _____ Gel _____ Other _____	
Cooler Custody Seal <u> </u>	
Cooler ID <u> </u>	
Temp Observed <u>1.4</u> °C Corrected <u>1.4</u> °C From Temp Blank <input checked="" type="checkbox"/> Sample <input type="checkbox"/>	
Opening/Processing The Shipment	
Yes No NA	
Cooler compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
Cooler Temperature is acceptable? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Frozen samples show signs of thaw? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Initials <u>JF</u> Date: <u>8/3/23</u>	
Unpacking/Labeling The Samples	Trizma Lot #(s) _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Yes No NA	
Containers are not broken or leaking? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Samples compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
COC is complete w/o discrepancies <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample custody seal? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
Sample containers have legible labels? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample date/times are provided? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Appropriate containers are used? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample bottles are completely filled? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample preservatives verified? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
Is the Field Sampler's name on COC? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Samples w/o discrepancies? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Zero headspace?* <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Alkalinity has no headspace? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Perchlorate has headspace? (Methods 314, 331 6850) <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Multiphasic samples are not present? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")	
Initials <u>JF</u> Date <u>8/3/23</u>	Ammonium Acetate Lot #(s) _____ _____ _____
	Login Completion
	Yes No NA
	Receipt Temperature on COC? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	NCM Filed? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	Log Release checked in TALS? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Initials <u>90</u> Date <u>8/3/23</u>



Isotope Dilution Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-237606-1	Outfall 32	46	57	54	57	54	58	60	57
500-237606-1 - DL	Outfall 32								
500-237606-2	Outfall 21	69			70		57	105	100
500-237606-2 - DL	Outfall 21		84	79		78			
500-237606-3	Outfall 21 DUP	55				66	47	88	78
500-237606-3 - DL	Outfall 21 DUP	66	71	56	71	62	76		
500-237606-4	Station 11 10	62	75		75	76	75	92	84
500-237606-4 - DL	Station 11 10			68					
500-237606-5	Station 10 11	82	93	93	98	96	103	107	107
500-237606-6	Field Blank	68	69	71	75	73	75	83	78
500-237606-7	Station 4A	86	105	106	111	112	113	121	111
500-237606-7 - RA	Station 4A								
500-237606-8	Station 7	54	70	71	72	75	76	81	75
LCS 320-696276/2-A	Lab Control Sample	66	71	65	70	68	73	75	75
LCS 320-696276/3-A	Lab Control Sample Dup	66	70	69	74	74	75	77	76
MB 320-696276/1-A	Method Blank	72	73	74	78	73	79	80	80

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-237606-1	Outfall 32	48	38	58	57	56	64	56	59
500-237606-1 - DL	Outfall 32					57			
500-237606-2	Outfall 21	92	72			52	116	104	113
500-237606-2 - DL	Outfall 21			76	81	99			
500-237606-3	Outfall 21 DUP	67	47			40	93	78	82
500-237606-3 - DL	Outfall 21 DUP			61	71	70			
500-237606-4	Station 11 10	90	73	83		70	99	89	98
500-237606-4 - DL	Station 11 10				77	69			
500-237606-5	Station 10 11	96	82	99	105	101	118	114	120
500-237606-6	Field Blank	77	65	76	81	76	83	81	88
500-237606-7	Station 4A	99	72	113	115	119	128	119	123
500-237606-7 - RA	Station 4A								
500-237606-8	Station 7	70	53	73	79	78	87	74	85
LCS 320-696276/2-A	Lab Control Sample	73	65	63	74	73	83	74	81
LCS 320-696276/3-A	Lab Control Sample Dup	78	65	72	77	75	78	75	84
MB 320-696276/1-A	Method Blank	77	69	71	81	78	84	81	88

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFm (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-237606-1	Outfall 32	41	39	37	35	75	74	73	50
500-237606-1 - DL	Outfall 32								
500-237606-2	Outfall 21	77	73	67	62	122		133	86
500-237606-2 - DL	Outfall 21						86		
500-237606-3	Outfall 21 DUP	50	49	45	41	88		110	68
500-237606-3 - DL	Outfall 21 DUP						84		
500-237606-4	Station 11 10	73	74	70	69	91		108	79
500-237606-4 - DL	Station 11 10						78		
500-237606-5	Station 10 11	87	85	82	78	119	124	141	89
500-237606-6	Field Blank	55	54	61	60	90	94	103	60
500-237606-7	Station 4A	90	86	73	68	148	137		93

Eurofins Chicago

Isotope Dilution Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-237606-1

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-237606-7 - RA	Station 4A							116	
500-237606-8	Station 7	60	57	54	49	93	92	104	62
LCS 320-696276/2-A	Lab Control Sample	48	48	61	59	82	85	89	62
LCSD 320-696276/3-A	Lab Control Sample Dup	52	58	59	59	85	88	91	67
MB 320-696276/1-A	Method Blank	54	54	64	64	92	90	97	71

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOA = d3-NMeFOA
- d5NEFOA = d5-NEtFOA
- dMeFOA = d-N-MeFOA-M
- dEtFOA = d-N-EtFOA-M
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- HFPODA = 13C3 HFPO-DA



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Eric Oelkers
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Generated 12/12/2023 2:40:29 PM

JOB DESCRIPTION

Dane County Airport 25221127.00

JOB NUMBER

500-243157-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits

- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



Generated
12/12/2023 2:40:29 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	8
Sample Summary	9
Client Sample Results	10
Definitions	26
QC Association	27
QC Sample Results	28
Chronicle	33
Certification Summary	35
Chain of Custody	36
Receipt Checklists	37
Field Data Sheets	38
Isotope Dilution Summary	39

Case Narrative

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Job ID: 500-243157-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-243157-1

Receipt

The samples were received on 11/30/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.7° C.

LCMS

Method 537 (modified): Results for sample Station 10 (500-243157-4) was reported from the analysis of a diluted extract due to high concentration of target analytes based on screen results. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): Results for sample Outfall 32 (500-243157-1) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-725234 and 320-725234.

preparation batch 320-725234 and 320-725234

Method: 3535 PFC-W

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-725234 and 320-725234 were light yellow in color prior to extraction. Outfall 32 (500-243157-1), Station 10 (500-243157-4), Station 11 (500-243157-5), Station 4A (500-243157-7) and Station 7 (500-243157-8)

preparation batch 320-725234 and 320-725234

Method: 3535 PFC-W

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-725234 were observed to have floating particulates present in the sample bottle. Station 10 (500-243157-4), Station 11 (500-243157-5), Station 4A (500-243157-7) and Station 7 (500-243157-8)

preparation batch 320-725234

Method: 3535 PFC-W

Matrix: Aqueous

Method 3535: Due to the matrix being light yellow in color and containing floating particulates, the initial volumes used for the following samples deviated from the standard procedure: Outfall 21 (500-243157-2) and Outfall 21 DUP (500-243157-3). A 50x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.

preparation batch 320-725234 and 320-725234

Method: 3535 PFC-W

Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following samples contain non-settable particulates which clogged the solid phase extraction column: Station 11 (500-243157-5) and Station 4A (500-243157-7).

preparation batch 320-725234

Method: 3535 PFC-W

Matrix: Aqueous

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

Detection Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-243157-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	17		4.3	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	67		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	65		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	31		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	75		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.6		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.72	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	32		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	57		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	240		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	9.3		1.7	0.16	ng/L	1		537 (modified)	Total/NA
4:2 FTS	1.0	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
6:2 FTS	60		4.3	2.1	ng/L	1		537 (modified)	Total/NA
8:2 FTS	9.7		1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	450		8.5	2.3	ng/L	5		537 (modified)	Total/NA

Client Sample ID: Outfall 21

Lab Sample ID: 500-243157-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	230	J	250	120	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1200		100	25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1100		100	29	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	360		100	13	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	790		100	43	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	69	J	100	14	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	660		100	10	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1100		100	15	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8200		100	29	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	280		100	9.5	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	14000		100	27	ng/L	1		537 (modified)	Total/NA
4:2 FTS	19	J	100	12	ng/L	1		537 (modified)	Total/NA
6:2 FTS	3300		250	130	ng/L	1		537 (modified)	Total/NA
8:2 FTS	320		100	23	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-243157-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	240	J	250	120	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1100		100	25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1300		100	29	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	370		100	13	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	810		100	43	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	78	J	100	14	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	670		100	10	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1200		100	15	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8800		100	29	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	290		100	9.5	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Outfall 21 DUP (Continued)

Lab Sample ID: 500-243157-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	17000		100	27	ng/L	1		537 (modified)	Total/NA
4:2 FTS	22	J	100	12	ng/L	1		537 (modified)	Total/NA
6:2 FTS	3600		250	130	ng/L	1		537 (modified)	Total/NA
8:2 FTS	430		100	23	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Station 10

Lab Sample ID: 500-243157-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	58		42	20	ng/L	10		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	300		17	4.2	ng/L	10		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	330		17	4.9	ng/L	10		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	99		17	2.1	ng/L	10		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	300		17	7.2	ng/L	10		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	14	J	17	2.3	ng/L	10		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	170		17	1.7	ng/L	10		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	240		17	2.5	ng/L	10		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1600		17	4.8	ng/L	10		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	55		17	1.6	ng/L	10		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2400		17	4.6	ng/L	10		537 (modified)	Total/NA
4:2 FTS	11	J	17	2.0	ng/L	10		537 (modified)	Total/NA
6:2 FTS	730		42	21	ng/L	10		537 (modified)	Total/NA
8:2 FTS	30		17	3.9	ng/L	10		537 (modified)	Total/NA

Client Sample ID: Station 11

Lab Sample ID: 500-243157-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.3	J	4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.0		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.7		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.9		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	8.6		1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.2		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	4.1		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	29		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.58	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	25		1.7	0.46	ng/L	1		537 (modified)	Total/NA
6:2 FTS	3.8	J	4.3	2.1	ng/L	1		537 (modified)	Total/NA
8:2 FTS	0.41	J	1.7	0.39	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 500-243157-6

No Detections.

Client Sample ID: Station 4A

Lab Sample ID: 500-243157-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.1		4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	22		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	21		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.4		1.7	0.21	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 4A (Continued)

Lab Sample ID: 500-243157-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	22		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.0	J	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	13		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	16		1.7	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	110		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	3.6		1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	150		1.7	0.46	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.56	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
6:2 FTS	41		4.2	2.1	ng/L	1		537 (modified)	Total/NA
8:2 FTS	2.3		1.7	0.39	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Station 7

Lab Sample ID: 500-243157-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.9		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	22		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	22		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.0		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	22		1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.1	J	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.44	J	1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	17		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	100		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	2.8		1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	120		1.7	0.46	ng/L	1		537 (modified)	Total/NA
NEtFOSE	0.82	J	1.7	0.73	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.45	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
6:2 FTS	30		4.3	2.2	ng/L	1		537 (modified)	Total/NA
8:2 FTS	2.0		1.7	0.40	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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

Sample Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243157-1	Outfall 32	Water	11/29/23 07:40	11/30/23 09:30
500-243157-2	Outfall 21	Water	11/29/23 08:00	11/30/23 09:30
500-243157-3	Outfall 21 DUP	Water	11/29/23 08:05	11/30/23 09:30
500-243157-4	Station 10	Water	11/29/23 09:05	11/30/23 09:30
500-243157-5	Station 11	Water	11/29/23 09:20	11/30/23 09:30
500-243157-6	Field Blank	Water	11/29/23 09:25	11/30/23 09:30
500-243157-7	Station 4A	Water	11/29/23 09:45	11/30/23 09:30
500-243157-8	Station 7	Water	11/29/23 10:00	11/30/23 09:30

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

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-243157-1

Date Collected: 11/29/23 07:40

Matrix: Water

Date Received: 11/30/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	17		4.3	2.0	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluoropentanoic acid (PFPeA)	67		1.7	0.42	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorohexanoic acid (PFHxA)	65		1.7	0.49	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluoroheptanoic acid (PFHpA)	31		1.7	0.21	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorooctanoic acid (PFOA)	75		1.7	0.72	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorononanoic acid (PFNA)	3.6		1.7	0.23	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorodecanoic acid (PFDA)	0.72	J	1.7	0.26	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorobutanesulfonic acid (PFBS)	32		1.7	0.17	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluoropentanesulfonic acid (PFPeS)	57		1.7	0.26	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorohexanesulfonic acid (PFHxS)	240		1.7	0.49	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluoroheptanesulfonic acid (PFHpS)	9.3		1.7	0.16	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		12/05/23 20:17	12/08/23 02:08	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		12/05/23 20:17	12/08/23 02:08	1
NEtFOSA	<0.74		1.7	0.74	ng/L		12/05/23 20:17	12/08/23 02:08	1
NMeFOSA	<0.37		1.7	0.37	ng/L		12/05/23 20:17	12/08/23 02:08	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		12/05/23 20:17	12/08/23 02:08	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		12/05/23 20:17	12/08/23 02:08	1
NMeFOSE	<1.2		3.4	1.2	ng/L		12/05/23 20:17	12/08/23 02:08	1
NEtFOSE	<0.72		1.7	0.72	ng/L		12/05/23 20:17	12/08/23 02:08	1
4:2 FTS	1.0	J	1.7	0.20	ng/L		12/05/23 20:17	12/08/23 02:08	1
6:2 FTS	60		4.3	2.1	ng/L		12/05/23 20:17	12/08/23 02:08	1
8:2 FTS	9.7		1.7	0.39	ng/L		12/05/23 20:17	12/08/23 02:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		12/05/23 20:17	12/08/23 02:08	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		12/05/23 20:17	12/08/23 02:08	1
9CI-PF3ONS	<0.20		1.7	0.20	ng/L		12/05/23 20:17	12/08/23 02:08	1
11CI-PF3OUdS	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 02:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	73		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C5 PFPeA	37		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C2 PFHxA	106		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C4 PFHpA	119		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C4 PFOA	102		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C5 PFNA	97		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C2 PFDA	116		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C2 PFUnA	101		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C2 PFDoA	104		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C2 PFTrDA	94		25 - 150				12/05/23 20:17	12/08/23 02:08	1
13C3 PFBS	66		25 - 150				12/05/23 20:17	12/08/23 02:08	1
18O2 PFHxS	104		25 - 150				12/05/23 20:17	12/08/23 02:08	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Outfall 32
Date Collected: 11/29/23 07:40
Date Received: 11/30/23 09:30

Lab Sample ID: 500-243157-1
Matrix: Water

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	93		25 - 150	12/05/23 20:17	12/08/23 02:08	1
13C8 FOSA	103		10 - 150	12/05/23 20:17	12/08/23 02:08	1
d3-NMeFOSAA	95		25 - 150	12/05/23 20:17	12/08/23 02:08	1
d5-NEtFOSAA	84		25 - 150	12/05/23 20:17	12/08/23 02:08	1
d-N-MeFOSA-M	89		10 - 150	12/05/23 20:17	12/08/23 02:08	1
d-N-EtFOSA-M	86		10 - 150	12/05/23 20:17	12/08/23 02:08	1
d7-N-MeFOSE-M	84		10 - 150	12/05/23 20:17	12/08/23 02:08	1
d9-N-EtFOSE-M	79		10 - 150	12/05/23 20:17	12/08/23 02:08	1
M2-4:2 FTS	89		25 - 150	12/05/23 20:17	12/08/23 02:08	1
M2-6:2 FTS	84		25 - 150	12/05/23 20:17	12/08/23 02:08	1
M2-8:2 FTS	112		25 - 150	12/05/23 20:17	12/08/23 02:08	1
13C3 HFPO-DA	107		25 - 150	12/05/23 20:17	12/08/23 02:08	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanesulfonic acid (PFOS)	450		8.5	2.3	ng/L		12/05/23 20:17	12/11/23 16:02	5

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	93		25 - 150	12/05/23 20:17	12/11/23 16:02	5

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Outfall 21

Lab Sample ID: 500-243157-2

Date Collected: 11/29/23 08:00

Matrix: Water

Date Received: 11/30/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	230	J	250	120	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluoropentanoic acid (PFPeA)	1200		100	25	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorohexanoic acid (PFHxA)	1100		100	29	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluoroheptanoic acid (PFHpA)	360		100	13	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorooctanoic acid (PFOA)	790		100	43	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorononanoic acid (PFNA)	69	J	100	14	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorodecanoic acid (PFDA)	<16		100	16	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluoroundecanoic acid (PFUnA)	<55		100	55	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorododecanoic acid (PFDoA)	<28		100	28	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorotridecanoic acid (PFTrDA)	<65		100	65	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorotetradecanoic acid (PFTeA)	<37		100	37	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorobutanesulfonic acid (PFBS)	660		100	10	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluoropentanesulfonic acid (PFPeS)	1100		100	15	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorohexanesulfonic acid (PFHxS)	8200		100	29	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluoroheptanesulfonic acid (PFHpS)	280		100	9.5	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorooctanesulfonic acid (PFOS)	14000		100	27	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorononanesulfonic acid (PFNS)	<19		100	19	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorodecanesulfonic acid (PFDS)	<16		100	16	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorododecanesulfonic acid (PFDoS)	<49		100	49	ng/L		12/05/23 20:17	12/08/23 02:19	1
Perfluorooctanesulfonamide (FOSA)	<49		100	49	ng/L		12/05/23 20:17	12/08/23 02:19	1
NEtFOSA	<44		100	44	ng/L		12/05/23 20:17	12/08/23 02:19	1
NMeFOSA	<22		100	22	ng/L		12/05/23 20:17	12/08/23 02:19	1
NMeFOSAA	<60		250	60	ng/L		12/05/23 20:17	12/08/23 02:19	1
NEtFOSAA	<65		250	65	ng/L		12/05/23 20:17	12/08/23 02:19	1
NMeFOSE	<70		200	70	ng/L		12/05/23 20:17	12/08/23 02:19	1
NEtFOSE	<43		100	43	ng/L		12/05/23 20:17	12/08/23 02:19	1
4:2 FTS	19	J	100	12	ng/L		12/05/23 20:17	12/08/23 02:19	1
6:2 FTS	3300		250	130	ng/L		12/05/23 20:17	12/08/23 02:19	1
8:2 FTS	320		100	23	ng/L		12/05/23 20:17	12/08/23 02:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<20		100	20	ng/L		12/05/23 20:17	12/08/23 02:19	1
HFPO-DA (GenX)	<75		200	75	ng/L		12/05/23 20:17	12/08/23 02:19	1
9Cl-PF3ONS	<12		100	12	ng/L		12/05/23 20:17	12/08/23 02:19	1
11Cl-PF3OUdS	<16		100	16	ng/L		12/05/23 20:17	12/08/23 02:19	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	104		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C5 PFPeA	63		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C2 PFHxA	117		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C4 PFHpA	120		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C4 PFOA	109		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C5 PFNA	102		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C2 PFDA	116		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C2 PFUnA	115		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C2 PFDoA	124		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C2 PFTeDA	104		25 - 150	12/05/23 20:17	12/08/23 02:19	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Outfall 21

Lab Sample ID: 500-243157-2

Date Collected: 11/29/23 08:00

Matrix: Water

Date Received: 11/30/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	95		25 - 150	12/05/23 20:17	12/08/23 02:19	1
18O2 PFHxS	111		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C4 PFOS	107		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C8 FOSA	106		10 - 150	12/05/23 20:17	12/08/23 02:19	1
d3-NMeFOSAA	105		25 - 150	12/05/23 20:17	12/08/23 02:19	1
d5-NEtFOSAA	105		25 - 150	12/05/23 20:17	12/08/23 02:19	1
d-N-MeFOSA-M	106		10 - 150	12/05/23 20:17	12/08/23 02:19	1
d-N-EtFOSA-M	108		10 - 150	12/05/23 20:17	12/08/23 02:19	1
d7-N-MeFOSE-M	110		10 - 150	12/05/23 20:17	12/08/23 02:19	1
d9-N-EtFOSE-M	101		10 - 150	12/05/23 20:17	12/08/23 02:19	1
M2-4:2 FTS	97		25 - 150	12/05/23 20:17	12/08/23 02:19	1
M2-6:2 FTS	82		25 - 150	12/05/23 20:17	12/08/23 02:19	1
M2-8:2 FTS	99		25 - 150	12/05/23 20:17	12/08/23 02:19	1
13C3 HFPO-DA	107		25 - 150	12/05/23 20:17	12/08/23 02:19	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-243157-3

Date Collected: 11/29/23 08:05

Matrix: Water

Date Received: 11/30/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	240	J	250	120	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluoropentanoic acid (PFPeA)	1100		100	25	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorohexanoic acid (PFHxA)	1300		100	29	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluoroheptanoic acid (PFHpA)	370		100	13	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorooctanoic acid (PFOA)	810		100	43	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorononanoic acid (PFNA)	78	J	100	14	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorodecanoic acid (PFDA)	<16		100	16	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluoroundecanoic acid (PFUnA)	<55		100	55	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorododecanoic acid (PFDoA)	<28		100	28	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorotridecanoic acid (PFTrDA)	<65		100	65	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorotetradecanoic acid (PFTeA)	<37		100	37	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorobutanesulfonic acid (PFBS)	670		100	10	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluoropentanesulfonic acid (PFPeS)	1200		100	15	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorohexanesulfonic acid (PFHxS)	8800		100	29	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluoroheptanesulfonic acid (PFHpS)	290		100	9.5	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorooctanesulfonic acid (PFOS)	17000		100	27	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorononanesulfonic acid (PFNS)	<19		100	19	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorodecanesulfonic acid (PFDS)	<16		100	16	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorododecanesulfonic acid (PFDoS)	<49		100	49	ng/L		12/05/23 20:17	12/08/23 02:30	1
Perfluorooctanesulfonamide (FOSA)	<49		100	49	ng/L		12/05/23 20:17	12/08/23 02:30	1
NEtFOSA	<44		100	44	ng/L		12/05/23 20:17	12/08/23 02:30	1
NMeFOSA	<22		100	22	ng/L		12/05/23 20:17	12/08/23 02:30	1
NMeFOSAA	<60		250	60	ng/L		12/05/23 20:17	12/08/23 02:30	1
NEtFOSAA	<65		250	65	ng/L		12/05/23 20:17	12/08/23 02:30	1
NMeFOSE	<70		200	70	ng/L		12/05/23 20:17	12/08/23 02:30	1
NEtFOSE	<43		100	43	ng/L		12/05/23 20:17	12/08/23 02:30	1
4:2 FTS	22	J	100	12	ng/L		12/05/23 20:17	12/08/23 02:30	1
6:2 FTS	3600		250	130	ng/L		12/05/23 20:17	12/08/23 02:30	1
8:2 FTS	430		100	23	ng/L		12/05/23 20:17	12/08/23 02:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<20		100	20	ng/L		12/05/23 20:17	12/08/23 02:30	1
HFPO-DA (GenX)	<75		200	75	ng/L		12/05/23 20:17	12/08/23 02:30	1
9CI-PF3ONS	<12		100	12	ng/L		12/05/23 20:17	12/08/23 02:30	1
11CI-PF3OUdS	<16		100	16	ng/L		12/05/23 20:17	12/08/23 02:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	101		25 - 150				12/05/23 20:17	12/08/23 02:30	1
13C5 PFPeA	72		25 - 150				12/05/23 20:17	12/08/23 02:30	1
13C2 PFHxA	112		25 - 150				12/05/23 20:17	12/08/23 02:30	1
13C4 PFHpA	119		25 - 150				12/05/23 20:17	12/08/23 02:30	1
13C4 PFOA	105		25 - 150				12/05/23 20:17	12/08/23 02:30	1
13C5 PFNA	103		25 - 150				12/05/23 20:17	12/08/23 02:30	1
13C2 PFDA	117		25 - 150				12/05/23 20:17	12/08/23 02:30	1
13C2 PFUnA	125		25 - 150				12/05/23 20:17	12/08/23 02:30	1
13C2 PFDoA	126		25 - 150				12/05/23 20:17	12/08/23 02:30	1
13C2 PFTeDA	113		25 - 150				12/05/23 20:17	12/08/23 02:30	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-243157-3

Date Collected: 11/29/23 08:05

Matrix: Water

Date Received: 11/30/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	95		25 - 150	12/05/23 20:17	12/08/23 02:30	1
18O2 PFHxS	108		25 - 150	12/05/23 20:17	12/08/23 02:30	1
13C4 PFOS	109		25 - 150	12/05/23 20:17	12/08/23 02:30	1
13C8 FOSA	108		10 - 150	12/05/23 20:17	12/08/23 02:30	1
d3-NMeFOSAA	108		25 - 150	12/05/23 20:17	12/08/23 02:30	1
d5-NEtFOSAA	108		25 - 150	12/05/23 20:17	12/08/23 02:30	1
d-N-MeFOSA-M	111		10 - 150	12/05/23 20:17	12/08/23 02:30	1
d-N-EtFOSA-M	105		10 - 150	12/05/23 20:17	12/08/23 02:30	1
d7-N-MeFOSE-M	111		10 - 150	12/05/23 20:17	12/08/23 02:30	1
d9-N-EtFOSE-M	107		10 - 150	12/05/23 20:17	12/08/23 02:30	1
M2-4:2 FTS	100		25 - 150	12/05/23 20:17	12/08/23 02:30	1
M2-6:2 FTS	92		25 - 150	12/05/23 20:17	12/08/23 02:30	1
M2-8:2 FTS	106		25 - 150	12/05/23 20:17	12/08/23 02:30	1
13C3 HFPO-DA	110		25 - 150	12/05/23 20:17	12/08/23 02:30	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 10

Lab Sample ID: 500-243157-4

Date Collected: 11/29/23 09:05

Matrix: Water

Date Received: 11/30/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	58		42	20	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluoropentanoic acid (PFPeA)	300		17	4.2	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorohexanoic acid (PFHxA)	330		17	4.9	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluoroheptanoic acid (PFHpA)	99		17	2.1	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorooctanoic acid (PFOA)	300		17	7.2	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorononanoic acid (PFNA)	14 J		17	2.3	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorodecanoic acid (PFDA)	<2.6		17	2.6	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluoroundecanoic acid (PFUnA)	<9.3		17	9.3	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorododecanoic acid (PFDoA)	<4.7		17	4.7	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorotridecanoic acid (PFTrDA)	<11		17	11	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorotetradecanoic acid (PFTeA)	<6.2		17	6.2	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorobutanesulfonic acid (PFBS)	170		17	1.7	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluoropentanesulfonic acid (PFPeS)	240		17	2.5	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorohexanesulfonic acid (PFHxS)	1600		17	4.8	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluoroheptanesulfonic acid (PFHpS)	55		17	1.6	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorooctanesulfonic acid (PFOS)	2400		17	4.6	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorononanesulfonic acid (PFNS)	<3.1		17	3.1	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorodecanesulfonic acid (PFDS)	<2.7		17	2.7	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorododecanesulfonic acid (PFDoS)	<8.2		17	8.2	ng/L		12/05/23 20:17	12/08/23 05:08	10
Perfluorooctanesulfonamide (FOSA)	<8.3		17	8.3	ng/L		12/05/23 20:17	12/08/23 05:08	10
NEtFOSA	<7.4		17	7.4	ng/L		12/05/23 20:17	12/08/23 05:08	10
NMeFOSA	<3.6		17	3.6	ng/L		12/05/23 20:17	12/08/23 05:08	10
NMeFOSAA	<10		42	10	ng/L		12/05/23 20:17	12/08/23 05:08	10
NEtFOSAA	<11		42	11	ng/L		12/05/23 20:17	12/08/23 05:08	10
NMeFOSE	<12		34	12	ng/L		12/05/23 20:17	12/08/23 05:08	10
NEtFOSE	<7.2		17	7.2	ng/L		12/05/23 20:17	12/08/23 05:08	10
4:2 FTS	11 J		17	2.0	ng/L		12/05/23 20:17	12/08/23 05:08	10
6:2 FTS	730		42	21	ng/L		12/05/23 20:17	12/08/23 05:08	10
8:2 FTS	30		17	3.9	ng/L		12/05/23 20:17	12/08/23 05:08	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<3.4		17	3.4	ng/L		12/05/23 20:17	12/08/23 05:08	10
HFPO-DA (GenX)	<13		34	13	ng/L		12/05/23 20:17	12/08/23 05:08	10
9CI-PF3ONS	<2.0		17	2.0	ng/L		12/05/23 20:17	12/08/23 05:08	10
11CI-PF3OUdS	<2.7		17	2.7	ng/L		12/05/23 20:17	12/08/23 05:08	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C5 PFPeA	63		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C2 PFHxA	117		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C4 PFHpA	119		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C4 PFOA	109		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C5 PFNA	106		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C2 PFDA	118		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C2 PFUnA	115		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C2 PFDoA	96		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C2 PFTeDA	77		25 - 150	12/05/23 20:17	12/08/23 05:08	10

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 10

Lab Sample ID: 500-243157-4

Date Collected: 11/29/23 09:05

Matrix: Water

Date Received: 11/30/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	96		25 - 150	12/05/23 20:17	12/08/23 05:08	10
18O2 PFHxS	115		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C4 PFOS	106		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C8 FOSA	110		10 - 150	12/05/23 20:17	12/08/23 05:08	10
d3-NMeFOSAA	90		25 - 150	12/05/23 20:17	12/08/23 05:08	10
d5-NEtFOSAA	98		25 - 150	12/05/23 20:17	12/08/23 05:08	10
d-N-MeFOSA-M	75		10 - 150	12/05/23 20:17	12/08/23 05:08	10
d-N-EtFOSA-M	88		10 - 150	12/05/23 20:17	12/08/23 05:08	10
d7-N-MeFOSE-M	76		10 - 150	12/05/23 20:17	12/08/23 05:08	10
d9-N-EtFOSE-M	74		10 - 150	12/05/23 20:17	12/08/23 05:08	10
M2-4:2 FTS	107		25 - 150	12/05/23 20:17	12/08/23 05:08	10
M2-6:2 FTS	94		25 - 150	12/05/23 20:17	12/08/23 05:08	10
M2-8:2 FTS	116		25 - 150	12/05/23 20:17	12/08/23 05:08	10
13C3 HFPO-DA	105		25 - 150	12/05/23 20:17	12/08/23 05:08	10

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 11

Lab Sample ID: 500-243157-5

Date Collected: 11/29/23 09:20

Matrix: Water

Date Received: 11/30/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.3	J	4.3	2.1	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluoropentanoic acid (PFPeA)	7.0		1.7	0.42	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorohexanoic acid (PFHxA)	7.7		1.7	0.50	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluoroheptanoic acid (PFHpA)	2.9		1.7	0.21	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorooctanoic acid (PFOA)	8.6		1.7	0.73	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorobutanesulfonic acid (PFBS)	4.2		1.7	0.17	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluoropentanesulfonic acid (PFPeS)	4.1		1.7	0.26	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorohexanesulfonic acid (PFHxS)	29		1.7	0.49	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluoroheptanesulfonic acid (PFHpS)	0.58	J	1.7	0.16	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorooctanesulfonic acid (PFOS)	25		1.7	0.46	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		12/05/23 20:17	12/08/23 02:41	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		12/05/23 20:17	12/08/23 02:41	1
NEtFOSA	<0.75		1.7	0.75	ng/L		12/05/23 20:17	12/08/23 02:41	1
NMeFOSA	<0.37		1.7	0.37	ng/L		12/05/23 20:17	12/08/23 02:41	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		12/05/23 20:17	12/08/23 02:41	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		12/05/23 20:17	12/08/23 02:41	1
NMeFOSE	<1.2		3.4	1.2	ng/L		12/05/23 20:17	12/08/23 02:41	1
NEtFOSE	<0.73		1.7	0.73	ng/L		12/05/23 20:17	12/08/23 02:41	1
4:2 FTS	<0.21		1.7	0.21	ng/L		12/05/23 20:17	12/08/23 02:41	1
6:2 FTS	3.8	J	4.3	2.1	ng/L		12/05/23 20:17	12/08/23 02:41	1
8:2 FTS	0.41	J	1.7	0.39	ng/L		12/05/23 20:17	12/08/23 02:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		12/05/23 20:17	12/08/23 02:41	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		12/05/23 20:17	12/08/23 02:41	1
9CI-PF3ONS	<0.21		1.7	0.21	ng/L		12/05/23 20:17	12/08/23 02:41	1
11CI-PF3OUdS	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 02:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	72		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C5 PFPeA	43		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C2 PFHxA	79		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C4 PFHpA	89		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C4 PFOA	77		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C5 PFNA	81		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C2 PFDA	82		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C2 PFUnA	73		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C2 PFDoA	65		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C2 PFTeDA	57		25 - 150	12/05/23 20:17	12/08/23 02:41	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 11

Lab Sample ID: 500-243157-5

Date Collected: 11/29/23 09:20

Matrix: Water

Date Received: 11/30/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	66		25 - 150	12/05/23 20:17	12/08/23 02:41	1
18O2 PFHxS	79		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C4 PFOS	72		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C8 FOSA	78		10 - 150	12/05/23 20:17	12/08/23 02:41	1
d3-NMeFOSAA	66		25 - 150	12/05/23 20:17	12/08/23 02:41	1
d5-NEtFOSAA	60		25 - 150	12/05/23 20:17	12/08/23 02:41	1
d-N-MeFOSA-M	61		10 - 150	12/05/23 20:17	12/08/23 02:41	1
d-N-EtFOSA-M	58		10 - 150	12/05/23 20:17	12/08/23 02:41	1
d7-N-MeFOSE-M	56		10 - 150	12/05/23 20:17	12/08/23 02:41	1
d9-N-EtFOSE-M	53		10 - 150	12/05/23 20:17	12/08/23 02:41	1
M2-4:2 FTS	71		25 - 150	12/05/23 20:17	12/08/23 02:41	1
M2-6:2 FTS	65		25 - 150	12/05/23 20:17	12/08/23 02:41	1
M2-8:2 FTS	79		25 - 150	12/05/23 20:17	12/08/23 02:41	1
13C3 HFPO-DA	81		25 - 150	12/05/23 20:17	12/08/23 02:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Field Blank

Lab Sample ID: 500-243157-6

Date Collected: 11/29/23 09:25

Matrix: Water

Date Received: 11/30/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.3	2.1	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		12/05/23 20:17	12/08/23 02:53	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		12/05/23 20:17	12/08/23 02:53	1
NEtFOSA	<0.75		1.7	0.75	ng/L		12/05/23 20:17	12/08/23 02:53	1
NMeFOSA	<0.37		1.7	0.37	ng/L		12/05/23 20:17	12/08/23 02:53	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		12/05/23 20:17	12/08/23 02:53	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		12/05/23 20:17	12/08/23 02:53	1
NMeFOSE	<1.2		3.4	1.2	ng/L		12/05/23 20:17	12/08/23 02:53	1
NEtFOSE	<0.73		1.7	0.73	ng/L		12/05/23 20:17	12/08/23 02:53	1
4:2 FTS	<0.21		1.7	0.21	ng/L		12/05/23 20:17	12/08/23 02:53	1
6:2 FTS	<2.1		4.3	2.1	ng/L		12/05/23 20:17	12/08/23 02:53	1
8:2 FTS	<0.39		1.7	0.39	ng/L		12/05/23 20:17	12/08/23 02:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		12/05/23 20:17	12/08/23 02:53	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		12/05/23 20:17	12/08/23 02:53	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		12/05/23 20:17	12/08/23 02:53	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 02:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	110		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C5 PFPeA	73		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C2 PFHxA	117		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C4 PFHpA	114		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C4 PFOA	110		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C5 PFNA	102		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C2 PFDA	117		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C2 PFUnA	125		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C2 PFDoA	116		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C2 PFTeDA	109		25 - 150				12/05/23 20:17	12/08/23 02:53	1
13C3 PFBS	94		25 - 150				12/05/23 20:17	12/08/23 02:53	1
18O2 PFHxS	102		25 - 150				12/05/23 20:17	12/08/23 02:53	1

Euofins Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Field Blank

Lab Sample ID: 500-243157-6

Date Collected: 11/29/23 09:25

Matrix: Water

Date Received: 11/30/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	109		25 - 150	12/05/23 20:17	12/08/23 02:53	1
13C8 FOSA	101		10 - 150	12/05/23 20:17	12/08/23 02:53	1
d3-NMeFOSAA	98		25 - 150	12/05/23 20:17	12/08/23 02:53	1
d5-NEtFOSAA	99		25 - 150	12/05/23 20:17	12/08/23 02:53	1
d-N-MeFOSA-M	99		10 - 150	12/05/23 20:17	12/08/23 02:53	1
d-N-EtFOSA-M	102		10 - 150	12/05/23 20:17	12/08/23 02:53	1
d7-N-MeFOSE-M	105		10 - 150	12/05/23 20:17	12/08/23 02:53	1
d9-N-EtFOSE-M	104		10 - 150	12/05/23 20:17	12/08/23 02:53	1
M2-4:2 FTS	97		25 - 150	12/05/23 20:17	12/08/23 02:53	1
M2-6:2 FTS	91		25 - 150	12/05/23 20:17	12/08/23 02:53	1
M2-8:2 FTS	118		25 - 150	12/05/23 20:17	12/08/23 02:53	1
13C3 HFPO-DA	107		25 - 150	12/05/23 20:17	12/08/23 02:53	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 4A

Lab Sample ID: 500-243157-7

Date Collected: 11/29/23 09:45

Matrix: Water

Date Received: 11/30/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.1		4.2	2.0	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluoropentanoic acid (PFPeA)	22		1.7	0.41	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorohexanoic acid (PFHxA)	21		1.7	0.49	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluoroheptanoic acid (PFHpA)	7.4		1.7	0.21	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorooctanoic acid (PFOA)	22		1.7	0.72	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorononanoic acid (PFNA)	1.0	J	1.7	0.23	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorododecanoic acid (PFDoA)	<0.46		1.7	0.46	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorobutanesulfonic acid (PFBS)	13		1.7	0.17	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluoropentanesulfonic acid (PFPeS)	16		1.7	0.25	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorohexanesulfonic acid (PFHxS)	110		1.7	0.48	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluoroheptanesulfonic acid (PFHpS)	3.6		1.7	0.16	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorooctanesulfonic acid (PFOS)	150		1.7	0.46	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		12/05/23 20:17	12/08/23 03:04	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		12/05/23 20:17	12/08/23 03:04	1
NEtFOSA	<0.73		1.7	0.73	ng/L		12/05/23 20:17	12/08/23 03:04	1
NMeFOSA	<0.36		1.7	0.36	ng/L		12/05/23 20:17	12/08/23 03:04	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		12/05/23 20:17	12/08/23 03:04	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		12/05/23 20:17	12/08/23 03:04	1
NMeFOSE	<1.2		3.4	1.2	ng/L		12/05/23 20:17	12/08/23 03:04	1
NEtFOSE	<0.72		1.7	0.72	ng/L		12/05/23 20:17	12/08/23 03:04	1
4:2 FTS	0.56	J	1.7	0.20	ng/L		12/05/23 20:17	12/08/23 03:04	1
6:2 FTS	41		4.2	2.1	ng/L		12/05/23 20:17	12/08/23 03:04	1
8:2 FTS	2.3		1.7	0.39	ng/L		12/05/23 20:17	12/08/23 03:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		12/05/23 20:17	12/08/23 03:04	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		12/05/23 20:17	12/08/23 03:04	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		12/05/23 20:17	12/08/23 03:04	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		12/05/23 20:17	12/08/23 03:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	72		25 - 150				12/05/23 20:17	12/08/23 03:04	1
13C5 PFPeA	44		25 - 150				12/05/23 20:17	12/08/23 03:04	1
13C2 PFHxA	97		25 - 150				12/05/23 20:17	12/08/23 03:04	1
13C4 PFHpA	94		25 - 150				12/05/23 20:17	12/08/23 03:04	1
13C4 PFOA	88		25 - 150				12/05/23 20:17	12/08/23 03:04	1
13C5 PFNA	88		25 - 150				12/05/23 20:17	12/08/23 03:04	1
13C2 PFDA	93		25 - 150				12/05/23 20:17	12/08/23 03:04	1
13C2 PFUnA	77		25 - 150				12/05/23 20:17	12/08/23 03:04	1
13C2 PFDoA	72		25 - 150				12/05/23 20:17	12/08/23 03:04	1
13C2 PFTeDA	62		25 - 150				12/05/23 20:17	12/08/23 03:04	1

Euofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 4A

Lab Sample ID: 500-243157-7

Date Collected: 11/29/23 09:45

Matrix: Water

Date Received: 11/30/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	69		25 - 150	12/05/23 20:17	12/08/23 03:04	1
18O2 PFHxS	85		25 - 150	12/05/23 20:17	12/08/23 03:04	1
13C4 PFOS	81		25 - 150	12/05/23 20:17	12/08/23 03:04	1
13C8 FOSA	85		10 - 150	12/05/23 20:17	12/08/23 03:04	1
d3-NMeFOSAA	71		25 - 150	12/05/23 20:17	12/08/23 03:04	1
d5-NEtFOSAA	60		25 - 150	12/05/23 20:17	12/08/23 03:04	1
d-N-MeFOSA-M	65		10 - 150	12/05/23 20:17	12/08/23 03:04	1
d-N-EtFOSA-M	66		10 - 150	12/05/23 20:17	12/08/23 03:04	1
d7-N-MeFOSE-M	60		10 - 150	12/05/23 20:17	12/08/23 03:04	1
d9-N-EtFOSE-M	57		10 - 150	12/05/23 20:17	12/08/23 03:04	1
M2-4:2 FTS	84		25 - 150	12/05/23 20:17	12/08/23 03:04	1
M2-6:2 FTS	72		25 - 150	12/05/23 20:17	12/08/23 03:04	1
M2-8:2 FTS	79		25 - 150	12/05/23 20:17	12/08/23 03:04	1
13C3 HFPO-DA	85		25 - 150	12/05/23 20:17	12/08/23 03:04	1

Client Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 7

Lab Sample ID: 500-243157-8

Date Collected: 11/29/23 10:00

Matrix: Water

Date Received: 11/30/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.9		4.3	2.1	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluoropentanoic acid (PFPeA)	22		1.7	0.42	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorohexanoic acid (PFHxA)	22		1.7	0.50	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluoroheptanoic acid (PFHpA)	8.0		1.7	0.22	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorooctanoic acid (PFOA)	22		1.7	0.73	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorononanoic acid (PFNA)	1.1	J	1.7	0.23	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorodecanoic acid (PFDA)	0.44	J	1.7	0.27	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorobutanesulfonic acid (PFBS)	12		1.7	0.17	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluoropentanesulfonic acid (PFPeS)	17		1.7	0.26	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorohexanesulfonic acid (PFHxS)	100		1.7	0.49	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluoroheptanesulfonic acid (PFHpS)	2.8		1.7	0.16	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorooctanesulfonic acid (PFOS)	120		1.7	0.46	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		12/05/23 20:17	12/08/23 03:15	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		12/05/23 20:17	12/08/23 03:15	1
NEtFOSA	<0.75		1.7	0.75	ng/L		12/05/23 20:17	12/08/23 03:15	1
NMeFOSA	<0.37		1.7	0.37	ng/L		12/05/23 20:17	12/08/23 03:15	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		12/05/23 20:17	12/08/23 03:15	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		12/05/23 20:17	12/08/23 03:15	1
NMeFOSE	<1.2		3.4	1.2	ng/L		12/05/23 20:17	12/08/23 03:15	1
NEtFOSE	0.82	J	1.7	0.73	ng/L		12/05/23 20:17	12/08/23 03:15	1
4:2 FTS	0.45	J	1.7	0.21	ng/L		12/05/23 20:17	12/08/23 03:15	1
6:2 FTS	30		4.3	2.2	ng/L		12/05/23 20:17	12/08/23 03:15	1
8:2 FTS	2.0		1.7	0.40	ng/L		12/05/23 20:17	12/08/23 03:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		12/05/23 20:17	12/08/23 03:15	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		12/05/23 20:17	12/08/23 03:15	1
9CI-PF3ONS	<0.21		1.7	0.21	ng/L		12/05/23 20:17	12/08/23 03:15	1
11CI-PF3OUdS	<0.28		1.7	0.28	ng/L		12/05/23 20:17	12/08/23 03:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	73		25 - 150				12/05/23 20:17	12/08/23 03:15	1
13C5 PFPeA	42		25 - 150				12/05/23 20:17	12/08/23 03:15	1
13C2 PFHxA	104		25 - 150				12/05/23 20:17	12/08/23 03:15	1
13C4 PFHpA	112		25 - 150				12/05/23 20:17	12/08/23 03:15	1
13C4 PFOA	104		25 - 150				12/05/23 20:17	12/08/23 03:15	1
13C5 PFNA	98		25 - 150				12/05/23 20:17	12/08/23 03:15	1
13C2 PFDA	107		25 - 150				12/05/23 20:17	12/08/23 03:15	1
13C2 PFUnA	104		25 - 150				12/05/23 20:17	12/08/23 03:15	1
13C2 PFDoA	94		25 - 150				12/05/23 20:17	12/08/23 03:15	1
13C2 PFTeDA	87		25 - 150				12/05/23 20:17	12/08/23 03:15	1

Eurofins Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 7

Lab Sample ID: 500-243157-8

Date Collected: 11/29/23 10:00

Matrix: Water

Date Received: 11/30/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	73		25 - 150	12/05/23 20:17	12/08/23 03:15	1
18O2 PFHxS	103		25 - 150	12/05/23 20:17	12/08/23 03:15	1
13C4 PFOS	100		25 - 150	12/05/23 20:17	12/08/23 03:15	1
13C8 FOSA	96		10 - 150	12/05/23 20:17	12/08/23 03:15	1
d3-NMeFOSAA	100		25 - 150	12/05/23 20:17	12/08/23 03:15	1
d5-NEtFOSAA	85		25 - 150	12/05/23 20:17	12/08/23 03:15	1
d-N-MeFOSA-M	85		10 - 150	12/05/23 20:17	12/08/23 03:15	1
d-N-EtFOSA-M	77		10 - 150	12/05/23 20:17	12/08/23 03:15	1
d7-N-MeFOSE-M	83		10 - 150	12/05/23 20:17	12/08/23 03:15	1
d9-N-EtFOSE-M	75		10 - 150	12/05/23 20:17	12/08/23 03:15	1
M2-4:2 FTS	92		25 - 150	12/05/23 20:17	12/08/23 03:15	1
M2-6:2 FTS	83		25 - 150	12/05/23 20:17	12/08/23 03:15	1
M2-8:2 FTS	99		25 - 150	12/05/23 20:17	12/08/23 03:15	1
13C3 HFPO-DA	98		25 - 150	12/05/23 20:17	12/08/23 03:15	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

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

QC Association Summary

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

LCMS

Prep Batch: 725234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243157-1	Outfall 32	Total/NA	Water	3535	
500-243157-1 - DL	Outfall 32	Total/NA	Water	3535	
500-243157-2	Outfall 21	Total/NA	Water	3535	
500-243157-3	Outfall 21 DUP	Total/NA	Water	3535	
500-243157-4	Station 10	Total/NA	Water	3535	
500-243157-5	Station 11	Total/NA	Water	3535	
500-243157-6	Field Blank	Total/NA	Water	3535	
500-243157-7	Station 4A	Total/NA	Water	3535	
500-243157-8	Station 7	Total/NA	Water	3535	
MB 320-725234/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-725234/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-725234/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 725892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243157-1	Outfall 32	Total/NA	Water	537 (modified)	725234
500-243157-2	Outfall 21	Total/NA	Water	537 (modified)	725234
500-243157-3	Outfall 21 DUP	Total/NA	Water	537 (modified)	725234
500-243157-4	Station 10	Total/NA	Water	537 (modified)	725234
500-243157-5	Station 11	Total/NA	Water	537 (modified)	725234
500-243157-6	Field Blank	Total/NA	Water	537 (modified)	725234
500-243157-7	Station 4A	Total/NA	Water	537 (modified)	725234
500-243157-8	Station 7	Total/NA	Water	537 (modified)	725234
MB 320-725234/1-A	Method Blank	Total/NA	Water	537 (modified)	725234
LCS 320-725234/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	725234
LCSD 320-725234/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	725234

Analysis Batch: 726805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243157-1 - DL	Outfall 32	Total/NA	Water	537 (modified)	725234

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-725234/1-A
Matrix: Water
Analysis Batch: 725892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725234

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		12/05/23 20:17	12/08/23 01:34	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		12/05/23 20:17	12/08/23 01:34	1
NEtFOSA	<0.87		2.0	0.87	ng/L		12/05/23 20:17	12/08/23 01:34	1
NMeFOSA	<0.43		2.0	0.43	ng/L		12/05/23 20:17	12/08/23 01:34	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		12/05/23 20:17	12/08/23 01:34	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		12/05/23 20:17	12/08/23 01:34	1
NMeFOSE	<1.4		4.0	1.4	ng/L		12/05/23 20:17	12/08/23 01:34	1
NEtFOSE	<0.85		2.0	0.85	ng/L		12/05/23 20:17	12/08/23 01:34	1
4:2 FTS	<0.24		2.0	0.24	ng/L		12/05/23 20:17	12/08/23 01:34	1
6:2 FTS	<2.5		5.0	2.5	ng/L		12/05/23 20:17	12/08/23 01:34	1
8:2 FTS	<0.46		2.0	0.46	ng/L		12/05/23 20:17	12/08/23 01:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		12/05/23 20:17	12/08/23 01:34	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		12/05/23 20:17	12/08/23 01:34	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		12/05/23 20:17	12/08/23 01:34	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		12/05/23 20:17	12/08/23 01:34	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	94		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C5 PFPeA	66		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C2 PFHxA	105		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C4 PFHpA	110		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C4 PFOA	102		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C5 PFNA	105		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C2 PFDA	119		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C2 PFUnA	120		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C2 PFDoA	116		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C2 PFTeDA	104		25 - 150	12/05/23 20:17	12/08/23 01:34	1

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

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

Lab Sample ID: MB 320-725234/1-A
Matrix: Water
Analysis Batch: 725892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725234

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	94		25 - 150	12/05/23 20:17	12/08/23 01:34	1
18O2 PFHxS	103		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C4 PFOS	99		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C8 FOSA	100		10 - 150	12/05/23 20:17	12/08/23 01:34	1
d3-NMeFOSAA	94		25 - 150	12/05/23 20:17	12/08/23 01:34	1
d5-NEtFOSAA	103		25 - 150	12/05/23 20:17	12/08/23 01:34	1
d-N-MeFOSA-M	100		10 - 150	12/05/23 20:17	12/08/23 01:34	1
d-N-EtFOSA-M	99		10 - 150	12/05/23 20:17	12/08/23 01:34	1
d7-N-MeFOSE-M	98		10 - 150	12/05/23 20:17	12/08/23 01:34	1
d9-N-EtFOSE-M	98		10 - 150	12/05/23 20:17	12/08/23 01:34	1
M2-4:2 FTS	85		25 - 150	12/05/23 20:17	12/08/23 01:34	1
M2-6:2 FTS	78		25 - 150	12/05/23 20:17	12/08/23 01:34	1
M2-8:2 FTS	107		25 - 150	12/05/23 20:17	12/08/23 01:34	1
13C3 HFPO-DA	96		25 - 150	12/05/23 20:17	12/08/23 01:34	1

Lab Sample ID: LCS 320-725234/2-A
Matrix: Water
Analysis Batch: 725892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	8.00	6.25		ng/L		78	60 - 135
Perfluoropentanoic acid (PFPeA)	8.00	8.59		ng/L		107	60 - 135
Perfluorohexanoic acid (PFHxA)	8.00	8.14		ng/L		102	60 - 135
Perfluoroheptanoic acid (PFHpA)	8.00	7.70		ng/L		96	60 - 135
Perfluorooctanoic acid (PFOA)	8.00	7.91		ng/L		99	60 - 135
Perfluorononanoic acid (PFNA)	8.00	7.55		ng/L		94	60 - 135
Perfluorodecanoic acid (PFDA)	8.00	7.22		ng/L		90	60 - 135
Perfluoroundecanoic acid (PFUnA)	8.00	7.55		ng/L		94	60 - 135
Perfluorododecanoic acid (PFDoA)	8.00	7.61		ng/L		95	60 - 135
Perfluorotridecanoic acid (PFTrDA)	8.00	7.35		ng/L		92	60 - 135
Perfluorotetradecanoic acid (PFTeA)	8.00	7.48		ng/L		93	60 - 135
Perfluorobutanesulfonic acid (PFBS)	7.10	7.51		ng/L		106	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	7.52	7.76		ng/L		103	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	7.30	6.67		ng/L		91	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	7.63	7.21		ng/L		94	60 - 135
Perfluorooctanesulfonic acid (PFOS)	7.44	7.57		ng/L		102	60 - 135
Perfluorononanesulfonic acid (PFNS)	7.70	8.53		ng/L		111	60 - 135
Perfluorodecanesulfonic acid (PFDS)	7.71	7.74		ng/L		100	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	7.76	8.12		ng/L		105	60 - 135

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

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

Lab Sample ID: LCS 320-725234/2-A
Matrix: Water
Analysis Batch: 725892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	8.00	7.56		ng/L		95	60 - 135
NEtFOSA	8.00	8.05		ng/L		101	60 - 135
NMeFOSA	8.00	7.56		ng/L		94	60 - 135
NMeFOSAA	8.00	8.02		ng/L		100	60 - 135
NEtFOSAA	8.00	7.98		ng/L		100	60 - 135
NMeFOSE	8.00	7.93		ng/L		99	60 - 135
NEtFOSE	8.00	8.08		ng/L		101	60 - 135
4:2 FTS	7.50	7.73		ng/L		103	60 - 135
6:2 FTS	7.62	7.19		ng/L		94	60 - 135
8:2 FTS	7.68	6.76		ng/L		88	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	8.35		ng/L		110	60 - 135
HFPO-DA (GenX)	8.00	7.98		ng/L		100	60 - 135
9Cl-PF3ONS	7.47	7.20		ng/L		96	60 - 135
11Cl-PF3OUdS	7.55	7.56		ng/L		100	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	97		25 - 150
13C5 PFPeA	61		25 - 150
13C2 PFHxA	115		25 - 150
13C4 PFHpA	114		25 - 150
13C4 PFOA	105		25 - 150
13C5 PFNA	106		25 - 150
13C2 PFDA	114		25 - 150
13C2 PFUnA	116		25 - 150
13C2 PFDoA	115		25 - 150
13C2 PFTeDA	102		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	106		25 - 150
13C4 PFOS	101		25 - 150
13C8 FOSA	105		10 - 150
d3-NMeFOSAA	95		25 - 150
d5-NEtFOSAA	101		25 - 150
d-N-MeFOSA-M	98		10 - 150
d-N-EtFOSA-M	97		10 - 150
d7-N-MeFOSE-M	96		10 - 150
d9-N-EtFOSE-M	93		10 - 150
M2-4:2 FTS	91		25 - 150
M2-6:2 FTS	88		25 - 150
M2-8:2 FTS	106		25 - 150
13C3 HFPO-DA	102		25 - 150

Lab Sample ID: LCSD 320-725234/3-A
Matrix: Water
Analysis Batch: 725892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 725234

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	8.00	5.83		ng/L		73	60 - 135	7	30

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

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

Lab Sample ID: LCSD 320-725234/3-A
Matrix: Water
Analysis Batch: 725892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 725234

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	8.00	8.62		ng/L		108	60 - 135	0	30
Perfluorohexanoic acid (PFHxA)	8.00	7.99		ng/L		100	60 - 135	2	30
Perfluoroheptanoic acid (PFHpA)	8.00	7.60		ng/L		95	60 - 135	1	30
Perfluorooctanoic acid (PFOA)	8.00	7.25		ng/L		91	60 - 135	9	30
Perfluorononanoic acid (PFNA)	8.00	7.74		ng/L		97	60 - 135	3	30
Perfluorodecanoic acid (PFDA)	8.00	7.17		ng/L		90	60 - 135	1	30
Perfluoroundecanoic acid (PFUnA)	8.00	7.24		ng/L		91	60 - 135	4	30
Perfluorododecanoic acid (PFDoA)	8.00	7.64		ng/L		96	60 - 135	0	30
Perfluorotridecanoic acid (PFTrDA)	8.00	7.54		ng/L		94	60 - 135	2	30
Perfluorotetradecanoic acid (PFTeA)	8.00	7.25		ng/L		91	60 - 135	3	30
Perfluorobutanesulfonic acid (PFBS)	7.10	7.19		ng/L		101	60 - 135	4	30
Perfluoropentanesulfonic acid (PFPeS)	7.52	7.83		ng/L		104	60 - 135	1	30
Perfluorohexanesulfonic acid (PFHxS)	7.30	6.64		ng/L		91	60 - 135	0	30
Perfluoroheptanesulfonic acid (PFHpS)	7.63	6.61		ng/L		87	60 - 135	9	30
Perfluorooctanesulfonic acid (PFOS)	7.44	6.85		ng/L		92	60 - 135	10	30
Perfluorononanesulfonic acid (PFNS)	7.70	7.33		ng/L		95	60 - 135	15	30
Perfluorodecanesulfonic acid (PFDS)	7.71	6.60		ng/L		86	60 - 135	16	30
Perfluorododecanesulfonic acid (PFDoS)	7.76	7.54		ng/L		97	60 - 135	7	30
Perfluorooctanesulfonamide (FOSA)	8.00	7.24		ng/L		90	60 - 135	4	30
NEtFOSA	8.00	6.56		ng/L		82	60 - 135	20	30
NMeFOSA	8.00	6.69		ng/L		84	60 - 135	12	30
NMeFOSAA	8.00	7.19		ng/L		90	60 - 135	11	30
NEtFOSAA	8.00	8.02		ng/L		100	60 - 135	1	30
NMeFOSE	8.00	7.48		ng/L		93	60 - 135	6	30
NEtFOSE	8.00	7.14		ng/L		89	60 - 135	12	30
4:2 FTS	7.50	7.00		ng/L		93	60 - 135	10	30
6:2 FTS	7.62	7.24		ng/L		95	60 - 135	1	30
8:2 FTS	7.68	6.71		ng/L		87	60 - 135	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	7.28		ng/L		96	60 - 135	14	30
HFPO-DA (GenX)	8.00	8.11		ng/L		101	60 - 135	2	30
9Cl-PF3ONS	7.47	6.76		ng/L		90	60 - 135	6	30
11Cl-PF3OUdS	7.55	7.18		ng/L		95	60 - 135	5	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	100		25 - 150
13C5 PFPeA	62		25 - 150
13C2 PFHxA	106		25 - 150
13C4 PFHpA	114		25 - 150

Eurofins Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

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

Lab Sample ID: LCSD 320-725234/3-A
 Matrix: Water
 Analysis Batch: 725892

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 725234

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	106		25 - 150
13C5 PFNA	98		25 - 150
13C2 PFDA	108		25 - 150
13C2 PFUnA	108		25 - 150
13C2 PFDoA	110		25 - 150
13C2 PFTeDA	100		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	105		25 - 150
13C4 PFOS	106		25 - 150
13C8 FOSA	96		10 - 150
d3-NMeFOSAA	102		25 - 150
d5-NEtFOSAA	91		25 - 150
d-N-MeFOSA-M	97		10 - 150
d-N-EtFOSA-M	96		10 - 150
d7-N-MeFOSE-M	98		10 - 150
d9-N-EtFOSE-M	97		10 - 150
M2-4:2 FTS	91		25 - 150
M2-6:2 FTS	84		25 - 150
M2-8:2 FTS	106		25 - 150
13C3 HFPO-DA	103		25 - 150

Lab Chronicle

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Outfall 32

Lab Sample ID: 500-243157-1

Date Collected: 11/29/23 07:40

Matrix: Water

Date Received: 11/30/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			725234	ERR	EET SAC	12/05/23 20:17
Total/NA	Analysis	537 (modified)		1	725892	S1M	EET SAC	12/08/23 02:08
Total/NA	Prep	3535	DL		725234	ERR	EET SAC	12/05/23 20:17
Total/NA	Analysis	537 (modified)	DL	5	726805	RS1	EET SAC	12/11/23 16:02

Client Sample ID: Outfall 21

Lab Sample ID: 500-243157-2

Date Collected: 11/29/23 08:00

Matrix: Water

Date Received: 11/30/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			725234	ERR	EET SAC	12/05/23 20:17
Total/NA	Analysis	537 (modified)		1	725892	S1M	EET SAC	12/08/23 02:19

Client Sample ID: Outfall 21 DUP

Lab Sample ID: 500-243157-3

Date Collected: 11/29/23 08:05

Matrix: Water

Date Received: 11/30/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			725234	ERR	EET SAC	12/05/23 20:17
Total/NA	Analysis	537 (modified)		1	725892	S1M	EET SAC	12/08/23 02:30

Client Sample ID: Station 10

Lab Sample ID: 500-243157-4

Date Collected: 11/29/23 09:05

Matrix: Water

Date Received: 11/30/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			725234	ERR	EET SAC	12/05/23 20:17
Total/NA	Analysis	537 (modified)		10	725892	S1M	EET SAC	12/08/23 05:08

Client Sample ID: Station 11

Lab Sample ID: 500-243157-5

Date Collected: 11/29/23 09:20

Matrix: Water

Date Received: 11/30/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			725234	ERR	EET SAC	12/05/23 20:17
Total/NA	Analysis	537 (modified)		1	725892	S1M	EET SAC	12/08/23 02:41

Client Sample ID: Field Blank

Lab Sample ID: 500-243157-6

Date Collected: 11/29/23 09:25

Matrix: Water

Date Received: 11/30/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			725234	ERR	EET SAC	12/05/23 20:17
Total/NA	Analysis	537 (modified)		1	725892	S1M	EET SAC	12/08/23 02:53

Lab Chronicle

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Client Sample ID: Station 4A

Lab Sample ID: 500-243157-7

Date Collected: 11/29/23 09:45

Matrix: Water

Date Received: 11/30/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			725234	ERR	EET SAC	12/05/23 20:17
Total/NA	Analysis	537 (modified)		1	725892	S1M	EET SAC	12/08/23 03:04

Client Sample ID: Station 7

Lab Sample ID: 500-243157-8

Date Collected: 11/29/23 10:00

Matrix: Water

Date Received: 11/30/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			725234	ERR	EET SAC	12/05/23 20:17
Total/NA	Analysis	537 (modified)		1	725892	S1M	EET SAC	12/08/23 03:15

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1


Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-24

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

Chain of Custody Record

Client Information		Sampler: Ryan Matzok	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	GOC No: 500-114711-46810.1		
Client Contact: Eric Oelkers		Phone: 608 400 9597	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1		
Company: SCS Engineers		PWSID:		Job #:			
Address: 2830 Dairy Drive		Due Date Requested:		Analysis Requested			
City: Madison		TAT Requested (days):		 500-243157 Chain of Custody			
State, Zip: WI, 53718-6751		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Preservation Codes: A - HCL B - NaOH C - AsNaO2 D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Phone: 608 712 2830		PO #: 25221127.00		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)			
Email: EOelkers@scsengineers.com		WO #: 50021708		Total Number of containers:			
Project Name: Dane County Airport - 25221127.00		SSOW#:		Special Instructions/Note:			
Site:							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PF ₆ IDA, WI - PFA's, Standard List (33 analytes)
Outfall 32	11/29/23	740	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall 21	11/29/23	800	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall 21 DUP	11/29/23	805	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Station 10	11/29/23	905	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Station 11	11/29/23	920	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Field Blank	11/29/23	925	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Station 4A	11/29/23	945	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Station 7	11/29/23	1000	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:							
Relinquished by: <i>Myr...</i>		Date: 11/29/2023 12:00		Method of Shipment:		Return To Client <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Relinquished by: <i>Myr...</i>		Date/Time:		Received by: <i>[Signature]</i>		Date/Time: 11/29/23 09:30	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: <i>ESW</i>		Cooler Temperature(s) °C and Other Remarks: 4.7		Company: <i>ESW</i>	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-243157-1

SDG Number:

Login Number: 243157

List Number: 1

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 11/30/23 04:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

Sacramento Sample Receiving Notes (SSRN)



Job: 500-243157 Field Sheet

Tracking #: 7163 1500 8103

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Main form area containing sections: Therm. ID, Ice/Wet/Gel/Other, Cooler Custody Seal, Temp Observed, Opening/Processing The Shipment, Unpacking/Labeling The Samples, Login Completion, and Notes.



Isotope Dilution Summary

Client: SCS Engineers
Project/Site: Dane County Airport 25221127.00

Job ID: 500-243157-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-243157-1	Outfall 32	73	37	106	119	102	97	116	101
500-243157-1 - DL	Outfall 32								
500-243157-2	Outfall 21	104	63	117	120	109	102	116	115
500-243157-3	Outfall 21 DUP	101	72	112	119	105	103	117	125
500-243157-4	Station 10	96	63	117	119	109	106	118	115
500-243157-5	Station 11	72	43	79	89	77	81	82	73
500-243157-6	Field Blank	110	73	117	114	110	102	117	125
500-243157-7	Station 4A	72	44	97	94	88	88	93	77
500-243157-8	Station 7	73	42	104	112	104	98	107	104
LCS 320-725234/2-A	Lab Control Sample	97	61	115	114	105	106	114	116
LCSD 320-725234/3-A	Lab Control Sample Dup	100	62	106	114	106	98	108	108
MB 320-725234/1-A	Method Blank	94	66	105	110	102	105	119	120

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOs (25-150)	d5NEFOs (25-150)
500-243157-1	Outfall 32	104	94	66	104	93	103	95	84
500-243157-1 - DL	Outfall 32					93			
500-243157-2	Outfall 21	124	104	95	111	107	106	105	105
500-243157-3	Outfall 21 DUP	126	113	95	108	109	108	108	108
500-243157-4	Station 10	96	77	96	115	106	110	90	98
500-243157-5	Station 11	65	57	66	79	72	78	66	60
500-243157-6	Field Blank	116	109	94	102	109	101	98	99
500-243157-7	Station 4A	72	62	69	85	81	85	71	60
500-243157-8	Station 7	94	87	73	103	100	96	100	85
LCS 320-725234/2-A	Lab Control Sample	115	102	93	106	101	105	95	101
LCSD 320-725234/3-A	Lab Control Sample Dup	110	100	93	105	106	96	102	91
MB 320-725234/1-A	Method Blank	116	104	94	103	99	100	94	103

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		dMeFOsA (10-150)	dEtFOsA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-243157-1	Outfall 32	89	86	84	79	89	84	112	107
500-243157-1 - DL	Outfall 32								
500-243157-2	Outfall 21	106	108	110	101	97	82	99	107
500-243157-3	Outfall 21 DUP	111	105	111	107	100	92	106	110
500-243157-4	Station 10	75	88	76	74	107	94	116	105
500-243157-5	Station 11	61	58	56	53	71	65	79	81
500-243157-6	Field Blank	99	102	105	104	97	91	118	107
500-243157-7	Station 4A	65	66	60	57	84	72	79	85
500-243157-8	Station 7	85	77	83	75	92	83	99	98
LCS 320-725234/2-A	Lab Control Sample	98	97	96	93	91	88	106	102
LCSD 320-725234/3-A	Lab Control Sample Dup	97	96	98	97	91	84	106	103
MB 320-725234/1-A	Method Blank	100	99	98	98	85	78	107	96

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA

Eurofins Chicago

Isotope Dilution Summary

Client: SCS Engineers

Job ID: 500-243157-1

Project/Site: Dane County Airport 25221127.00

PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA

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

Attachment 4
Summary of PFAS Detections

**Dane County Regional Airport
Starkweather Creek PFAS Sampling Results**

Sample Location	Compound	30-Jun-21 Conc. (ng/l)	13-Jul-21 Conc. (ng/l)	3-Aug-21 Conc. (ng/l)	6-Jun-23 Conc. (ng/l)	18-Jul-23 Conc. (ng/l)	2-Aug-23 Conc. (ng/l)	29-Nov-23 Conc. (ng/l)	Avg. Before Conc. (ng/l)	Avg. After Conc. (ng/l)	Change Conc. (ng/l)	Change (%)
Outfall 32	PFBA	10	27	27	24	25	24	17	21	23	1	5%
	PFPeA	16	73	68	48	56	46	67	52	54	2	4%
	PFBS	6	28	27	22	25	19	32	20	25	4	21%
	4:2 FTS	ND	ND	ND	2	1	1	1	0	1	1	
	PFHxA	19	73	79	55	59	54	65	57	58	1	2%
	PFPeS	5	29	28	30	35	28	57	21	38	17	82%
	PFHpA	12	36	40	25	32	26	31	29	29	-1	-3%
	PFHxS	71	281	241	200	210	220	240	198	218	20	10%
	6:2 FTS	14	71	53	50	54	49	60	46	53	7	15%
	PFOA	19	92	89	62	64	52	75	66	63	-3	-5%
	PFHpS	4	10	10	9	9	9	9	8	9	1	15%
	PFNA	2	5	ND	4	5	4	4	3	4	1	23%
	PFOSA	ND	ND	ND	1	2	3	ND	0	2	2	
	PFOS	133	447	450	350	470	460	450	343	433	89	26%
	PFDA	1	1	ND	1	2	1	1	1	1	0	-2%
	8:2 FTS	4	12	8	11	15	19	10	8	14	6	76%
	PFNS	ND	ND	ND	1	ND	ND	ND	0	1	1	
	Total	316	1,184	1,119	895	1,064	1,015	1,118	873	1,023	150	17%

Outfall 21	PFBA	77	350	380	310	255	275	230	269	268	-1	-1%
	PFPeA	234	1,200	1,205	1,100	1,150	980	1,200	880	1,108	228	26%
	PFBS	205	1,028	985	715	695	630	660	739	675	-64	-9%
	4:2 FTS	4	24	23	ND	21	20	19	17	20	3	16%
	PFHxA	276	1,370	1,655	1,300	1,200	1,200	1,100	1,100	1,200	100	9%
	PFPeS	259	1,270	1,610	1,200	1,100	1,050	1,100	1,046	1,113	66	6%
	PFHpA	74	381	431	385	310	320	360	295	344	49	17%
	PFHxS	1,715	9,400	7,955	7,700	8,150	6,950	8,200	6,357	7,750	1,393	22%
	6:2 FTS	878	4,295	2,960	2,500	2,100	2,300	3,300	2,711	2,550	-161	-6%
	PFOA	181	856	891	805	740	785	790	642	780	138	21%
	PFHpS	79	850	680	285	270	225	280	536	265	-271	-51%
	PFNA	12	75	68	53	55	50	69	52	57	5	9%
	PFOSA	ND	20	20	ND	15	15	ND	20	15	-5	-27%
	PFOS	3,870	17,500	24,800	14,500	13,500	11,500	14,000	15,390	13,375	-2,015	-13%
	PFDA	2	7	6	ND	6	6	ND	5	6	1	20%
	8:2 FTS	54	341	361	335	225	245	320	252	281	30	12%
	PFNS	1	12	9	ND	7	8	ND	7	8	0	6%
	Total	7,919	38,976	44,037	31,188	29,799	26,558	31,628	30,311	29,793	-518	-2%

Station 10	PFBA	38	88	85	110	94	89	58	70	88	18	25%
	PFPeA	131	294	290	330	270	280	300	238	295	57	24%
	PFBS	82	200	201	200	180	160	170	161	178	17	10%
	4:2 FTS	4	10	9	12	12	11	11	8	12	4	50%
	PFHxA	166	367	331	430	340	350	330	288	363	75	26%
	PFPeS	98	215	219	310	240	220	240	177	253	75	42%
	PFHpA	45	98	99	140	110	100	99	81	112	32	39%
	PFHxS	802	2,440	1,760	2,300	2,100	1,500	1,600	1,667	1,875	208	12%
	6:2 FTS	414	742	718	890	710	610	730	625	735	110	18%
	PFOA	162	305	303	410	280	300	300	257	323	66	26%
	PFHpS	37	74	61	91	65	64	55	57	69	12	20%
	PFNA	9	15	11	23	15	12	14	12	16	4	39%
	PFOSA	2	2	ND	7	2	3	<8.3	2	4	2	80%
	PFOS	1,960	2,650	2,100	4,900	3,100	2,400	2,400	2,237	3,200	963	43%
	PFDA	1	1	ND	4	1	1	<2.6	1	2	1	93%
	8:2 FTS	22	23	19	120	28	34	30	21	53	32	149%
	PFNS	ND	ND	ND	< 1.9	1	1	<3.1	0	1	1	
	Total	3,973	7,523	6,205	10,277	7,548	6,134	6,337	5,900	7,574	1,674	28%

Station 11	PFBA	7	9	12	< 12	10	10	3	9	8	-2	-19%
	PFPeA	8	16	16	17	15	16	7	13	14	0	4%
	PFBS	5	6	9	7	7	7	4	6	7	0	3%
	4:2 FTS	ND	ND	ND	< 1.2	< 0.23	<0.19	<0.21	0	0	0	0%
	PFHxA	12	17	20	18	18	18	8	16	15	-1	-6%
	PFPeS	4	6	5	10	8	8	4	5	8	3	52%
	PFHpA	4	8	ND	8	8	8	3	6	7	1	16%
	PFHxS	47	75	65	83	67	72	29	62	63	1	1%
	6:2 FTS	3	7	ND	< 13	7	9	4	5	7	2	37%
	PFOA	14	27	30	22	19	19	9	24	17	-7	-28%
	PFHpS	ND	ND	ND	2	2	2	1	0	1	1	
	PFNA	1	1	ND	< 1.4	1	1	<0.23	1	1	0	6%
	PFOSA	ND	ND	ND	< 4.9	< 0.94	<0.80	<0.84	0	0	0	0%
	PFOS	35	51	28	68	73	90	25	38	64	26	69%
	PFDA	1	ND	ND	< 1.6	1	1	<0.27	1	1	0	-36%
	8:2 FTS	ND	ND	ND	< 2.3	1	2	0	0	1	1	
	PFNS	ND	ND	ND	< 1.9	< 0.35	<0.30	<0.32	0	0	0	
	Total	142	221	185	235	237	263	97	182	208	25	14%

Station 4A	PFBA	13	22	20	16	19	13	6	18	14	-5	-27%
	PFPeA	30	66	45	35	45	24	22	47	32	-15	-33%
	PFBS	16	39	23	20	26	12	13	26	18	-8	-32%
	4:2 FTS	ND	2	ND	1	1	0	1	2	1	-1	-59%
	PFHxA	32	86	53	43	54	29	21	57	37	-20	-36%
	PFPeS	15	40	25	27	34	15	16	27	23	-4	-14%
	PFHpA	11	24	18	15	18	10	7	18	13	-5	-29%
	PFHxS	184	408	239	190	220	130	110	277	163	-115	-41%
	6:2 FTS	55	140	74	51	69	31	41	90	48	-42	-46%
	PFOA	34	82	57	45	48	28	22	58	36	-22	-38%
	PFHpS	6	11	5	6	8	3	4	7	5	-2	-29%
	PFNA	2	3	2	3	2	2	1	2	2	-1	-22%
	PFOSA	ND	ND	ND	1	< 0.93	<0.78	<0.83	0	1	1	
	PFOS	314	581	302	230	290	150	150	399	205	-194	-49%
	PFDA	ND	ND	ND	1	1	1	<0.26	0	1	1	
	8:2 FTS	4	4	ND	1	2	3	2	4	2	-2	-50%
	PFNS	ND	ND	ND	ND	ND	ND	ND	0	0	0	
	Total	718	1,508	863	684	837	451	416	1,029	597	-432	-42%

Station 7	PFBA	11	16	16	18	14	14	7	14	13	-1	-7%
	PFPeA	19	41	31	43	31	29	22	30	31	1	4%
	PFBS	11	25	14	22	18	15	12	17	17	0	2%
	4:2 FTS	ND	ND	ND	1	1	1	0	0	1	1	
	PFHxA	25	48	35	52	36	35	22	36	36	0	1%
	PFPeS	13	21	14	33	21	20	17	16	23	7	44%
	PFHpA	9	16	14	15	13	12	8	13	12	-1	-7%
	PFHxS	105	211	160	240	150	150	100	159	160	1	1%
	6:2 FTS	42	56	41	61	40	44	30	46	44	-2	-5%
	PFOA	24	47	52	56	32	34	22	41	36	-5	-12%
	PFHpS	ND	6	4	8	5	5	3	5	5	0	8%
	PFNA	2	2	1	3	2	2	1	2	2	0	15%
	PFOSA	ND	ND	ND	< 4.9	< 0.95	<0.77	<0.84	0	0	0	
	PFOS	155	256	193	400	190	210	120	201	230	29	14%
	PFDA	1	ND	ND	< 1.6	1	1	0	1	1	0	-34%
	8:2 FTS	ND	ND	ND	3	1	3	2	0	2	2	
	PFNS	ND	ND	ND	< 1.9	< 0.36	<0.29	<.32	0	0	0	0%
	Total	415	743	576	955	554	574	367	578	612	35	6%

Attachment 5

Summary of Individual PFAS Mass Loading Calculations

Dane County Regional Airport

Starkweather Creek PFAS Mass Loading

Sample Location	Compound	30-Jun-21 Loading (mg/day)	13-Jul-21 Loading (mg/day)	3-Aug-21 Loading (mg/day)	6-Jun-23 Loading (mg/day)	18-Jul-23 Loading (mg/day)	2-Aug-23 Loading (mg/day)	29-Nov-23 Loading (mg/day)
Outfall 32	PFBA	20.04	30.50	28.83	42.28	50.15	44.04	31.19
	PFPeA	33.29	81.93	71.12	84.55	112.35	84.41	122.94
	PFBS	11.78	31.85	28.09	38.75	50.15	34.86	58.72
	4:2 FTS	0.00	0.00	0.00	2.64	1.58	1.14	1.83
	PFHxA	39.66	82.49	83.00	96.88	118.37	99.09	119.27
	PFPeS	10.03	32.41	29.67	52.85	70.22	51.38	104.59
	PFHpA	24.04	40.40	42.40	44.04	64.20	47.71	56.88
	PFHxS	145.71	316.24	253.54	352.31	421.30	403.68	440.38
	6:2 FTS	29.59	80.24	55.44	88.08	108.33	89.91	110.10
	PFOA	39.25	103.09	93.10	109.22	128.40	95.42	137.62
	PFHpS	7.50	10.96	10.43	15.15	18.26	16.15	17.06
	PFNA	4.09	5.35	0.00	6.87	9.83	7.71	6.61
	PFOSA	0.00	0.00	0.00	2.47	4.41	6.24	0.00
	PFOS	273.33	503.06	473.41	616.54	942.91	844.07	825.72
	PFDA	3.00	1.13	0.00	2.47	3.21	2.02	1.32
	8:2 FTS	7.67	12.94	8.54	19.38	30.09	34.86	17.80
	PFNS	0.00	0.00	0.00	1.48	0.00	0.00	0.00
	Total	649	1,333	1,178	1,576	2,134	1,863	2,052

Outfall 21	PFBA	26.49	25.69	25.84	30.34	37.43	26.91	16.88
	PFPeA	80.15	88.08	85.14	107.65	168.81	95.91	88.08
	PFBS	70.05	75.42	74.87	69.97	102.02	61.65	48.44
	4:2 FTS	1.38	1.74	1.59	0.00	3.01	1.91	1.39
	PFHxA	94.54	100.55	126.98	127.22	176.15	117.44	80.74
	PFPeS	88.54	93.21	116.70	117.44	161.47	102.76	80.74
	PFHpA	25.19	27.93	31.63	37.68	45.51	31.32	26.42
	PFHxS	587.42	689.93	565.89	753.55	1,196.38	680.15	601.86
	6:2 FTS	300.56	315.24	263.50	244.66	308.27	225.08	242.21
	PFOA	61.82	62.79	71.78	78.78	108.63	76.82	57.98
	PFHpS	27.06	62.35	49.03	27.89	39.63	22.02	20.55
	PFNA	4.21	5.52	4.71	5.19	8.07	4.84	5.06
	PFOSA	0.00	1.47	1.43	0.00	2.13	1.42	0.00
	PFOS	1,325.55	1,284.45	1,511.98	1,419.01	1,981.73	1,125.42	1,027.56
	PFDA	0.70	0.54	0.35	0.00	0.92	0.59	0.00
	8:2 FTS	18.46	24.99	23.41	32.78	33.03	23.98	23.49
	PFNS	0.26	0.86	0.60	0.00	1.06	0.79	0.00
	Total	2,712	2,861	2,955	3,052	4,374	2,599	2,321

Station 10	PFBA	15.64	53.82	43.62	96.88	114.99	52.26	
	PFPeA	54.49	179.82	149.00	290.65	330.29	164.41	
	PFBS	33.90	122.33	103.27	176.15	220.19	93.95	
	4:2 FTS	1.81	6.05	4.49	10.57	14.68	6.46	
	PFHxA	69.04	224.47	170.06	378.73	415.92	205.51	
	PFPeS	40.64	131.50	112.52	273.04	293.59	129.18	
	PFHpA	18.67	59.88	51.02	123.31	134.56	58.72	
	PFHxS	333.57	1,492.41	904.25	2,025.76	2,568.90	880.77	
	6:2 FTS	172.19	453.84	368.89	783.88	868.53	358.18	
	PFOA	67.38	186.55	155.68	361.11	342.52	176.15	
	PFHpS	15.39	45.20	31.14	80.15	79.51	37.58	
	PFNA	3.72	8.99	5.65	20.26	18.35	7.05	
	PFOSA	1.01	1.26	0.00	6.25	2.94	1.53	
	PFOS	815.20	1,620.86	1,078.94	4,315.76	3,792.19	1,409.23	
	PFDA	0.49	0.59	0.00	3.17	1.71	0.70	
	8:2 FTS	9.19	14.07	9.61	105.69	34.25	19.96	
	PFNS	0.00	0.00	0.00	0.00	0.71	0.41	
	Total	1,652	4,602	3,188	9,051	9,234	3,602	

**Dane County Regional Airport
Starkweather Creek PFAS Mass Loading**

Sample Location	Compound	30-Jun-21 Loading (mg/day)	13-Jul-21 Loading (mg/day)	3-Aug-21 Loading (mg/day)	6-Jun-23 Loading (mg/day)	18-Jul-23 Loading (mg/day)	2-Aug-23 Loading (mg/day)	29-Nov-23 Loading (mg/day)
Station 11	PFBA	117.66	89.58	64.70	0.00	96.77	109.12	42.71
	PFPeA	139.74	158.49	82.58	148.48	151.20	174.59	90.60
	PFBS	78.55	58.58	45.24	64.63	73.58	80.75	54.36
	4:2 FTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PFHxA	202.28	169.52	106.78	157.22	181.44	196.41	99.66
	PFPeS	71.98	59.58	24.41	83.85	80.64	90.57	53.06
	PFHpA	66.75	75.73	0.00	73.37	77.62	82.93	37.53
	PFHxS	793.96	747.31	341.91	724.94	675.35	785.64	375.33
	6:2 FTS	53.10	65.40	0.00	0.00	71.57	98.21	49.18
	PFOA	241.05	267.83	159.38	192.15	191.52	207.32	111.30
	PFHpS	0.00	0.00	0.00	13.97	17.14	18.55	7.51
	PFNA	21.75	9.86	0.00	0.00	12.10	13.09	0.00
	PFOSA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PFOS	586.62	512.58	145.71	593.93	735.83	982.06	323.56
	PFDA	17.53	0.00	0.00	0.00	7.56	6.33	0.00
	8:2 FTS	0.00	0.00	0.00	0.00	12.10	21.82	5.31
	PFNS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2,391	2,214	971	2,053	2,384	2,867	1,250

Station 4A	PFBA	264.16	203.84	104.81	168.72	216.62	163.16	77.75
	PFPeA	612.29	606.91	229.15	369.07	513.05	301.22	280.43
	PFBS	335.84	358.80	120.22	210.89	296.43	150.61	165.71
	4:2 FTS	0.00	15.50	0.00	8.96	10.60	5.02	7.14
	PFHxA	663.48	794.15	271.28	453.42	615.66	363.98	267.68
	PFPeS	307.17	372.63	128.96	284.71	387.64	188.26	203.95
	PFHpA	233.45	217.68	92.48	158.17	205.22	124.25	94.33
	PFHxS	3,767.92	3,763.22	1,227.94	2,003.50	2,508.23	1,631.62	1,402.13
	6:2 FTS	1,122.19	1,291.30	379.17	537.78	786.67	389.08	522.61
	PFOA	702.39	752.64	291.31	474.51	547.25	351.43	280.43
	PFHpS	121.23	99.61	27.38	64.32	88.93	41.42	45.89
	PFNA	44.03	31.54	8.99	28.47	26.22	20.08	12.75
	PFOSA	0.00	0.00	0.00	9.91	0.00	0.00	0.00
	PFOS	6,430.04	5,358.90	1,551.62	2,425.29	3,306.30	1,882.64	1,912.00
	PFDA	0.00	0.00	0.00	6.75	7.64	8.03	0.00
	8:2 FTS	90.31	38.37	0.00	11.60	23.94	38.91	29.32
	PFNS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	14,694	13,905	4,433	7,216	9,540	5,660	5,302

Station 7	PFBA	240.52	133.86	86.75	162.50	229.83	205.85	
	PFPeA	400.16	349.77	168.59	388.20	508.91	426.41	
	PFBS	223.49	212.46	78.56	198.61	295.50	220.56	
	4:2 FTS	0.00	0.00	0.00	10.83	11.16	8.23	
	PFHxA	521.49	417.14	193.14	469.45	590.99	514.64	
	PFPeS	266.07	177.05	78.56	297.92	344.75	294.08	
	PFHpA	185.82	140.77	74.75	135.42	213.41	176.45	
	PFHxS	2,234.95	1,822.28	872.94	2,166.69	2,462.48	2,205.59	
	6:2 FTS	889.72	480.18	221.51	550.70	656.66	646.97	
	PFOA	500.20	407.64	285.89	505.56	525.33	499.93	
	PFHpS	0.00	48.62	19.37	67.71	82.08	66.17	
	PFNA	43.85	16.15	7.37	27.99	31.19	29.41	
	PFOSA	0.00	0.00	0.00	0.00	0.00	0.00	
	PFOS	3,299.21	2,210.92	1,052.98	3,611.14	3,119.14	3,087.82	
	PFDA	20.16	0.00	0.00	0.00	11.49	10.73	
	8:2 FTS	0.00	0.00	0.00	28.89	18.06	45.58	
	PFNS	0.00	0.00	0.00	0.00	0.00	0.00	
	Total	8,826	6,417	3,140	8,622	9,101	8,438	