



A Division of SET Environmental Inc.
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May 5, 2022

Program Assistant
Wisconsin Department of Natural Resources
141 NW Barstow Street
Waukesha, Wisconsin 53188

Reference: *Emerging Contaminant Sampling*
Schaefer Brush
1101 South Prairie Avenue
Waukesha, Wisconsin
FID No. 268138750
BRRTS No. 02-68-563736

SET ENGINEERING LLC
File No. 1604-1204-0002

Dear Program Assistant:

SET Engineering LLC (SET) has prepared this Emerging Contaminant sampling for the referenced facility. In Wisconsin, Responsible Parties (RPs) and their environmental consultants are required to evaluate all relevant factors in scoping a site investigation under Wis. Admin. Code NR § 716.07 to ensure that the scope and detail of the field investigation are appropriate for the complexity of the site or facility. Wis. Admin. Code §§ NR 716.09 and NR 716.15 require RPs to develop and submit to the department both a site investigation (SI) work plan and report which evaluate the “history of the site or facility, including industrial, commercial or other land uses that may have been associated with one or more hazardous substance discharges at the site or facility.”

SET has been investigating/remediating a chlorinated solvent release at this brush manufacturing facility since 2015. A site map depicting the geographic location of the subject site is presented as Figure 1, a site map detailing landmarks and well locations is presented as Figure 2.

This letter is intended to specifically address emerging contaminants as they relate to groundwater quality conditions at the reference property.

Site History

The property has been operating as Schaefer Brush, a manufacturer of a broad array of industrial brushes since approximately 1982. Prior to this, the property was used by GTE Automatic Electric (GTE) as early as 1962. GTE manufactured rotary dials and automatic telephone exchanges that would not require switch board operators. GTE used the property after they acquired it from Electronic Secretary in the late 1950s. Electronic Secretary, who manufactured some of the first answering machines, was onsite only the initial years from when the property was developed in the mid-1950s until they were acquired by GTE. Prior to 1962, the property was farmed land.

Sampling Plan

Based upon known and suspected site history, we sampled groundwater from the following wells for the following emerging contaminant parameters:

Location	Rationale	Parameter(s)
MW-2	North lot, near suspected spill location	PFAS*
MW-3	Suspected spill location	PFAS*

* PFAS – Related to former coating operations and the degreasing required during preparation prior to coating. PFAS also potentially used in paint its water repellent and no-stick properties.

Both wells were developed and sampled in accordance with NR 141 guidelines. A copy of the lab data is presented in Appendix A, a summary is presented in Table 1.

Summary

Both wells were sampled on October 14, 2021 and on March 9, 2022. Monitor well MW-2 exceeded the interim NR 140 Preventative Action Limit (PAL) for PFOA and MW-3 exceeded the interim NR 140 Enforcement Standard (ES) for PFOS. The remaining concentrations were either below their respective PAL and/or laboratory method detection limits.

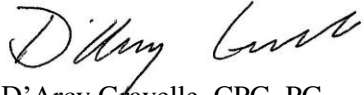
Conclusions

Groundwater data would suggest that history of the site or facility, including industrial, commercial, or other land uses that may have been associated with one or more hazardous substance discharges at the site or facility may have adversely affecting local groundwater quality, as it pertains to the emerging contaminants PFOA and PFOS.

Please contact me should you have any questions regarding this letter.

Sincerely,

SET Engineering LLC

A handwritten signature in black ink, appearing to read "D'Arcy Gravelle". The signature is written in a cursive, flowing style.

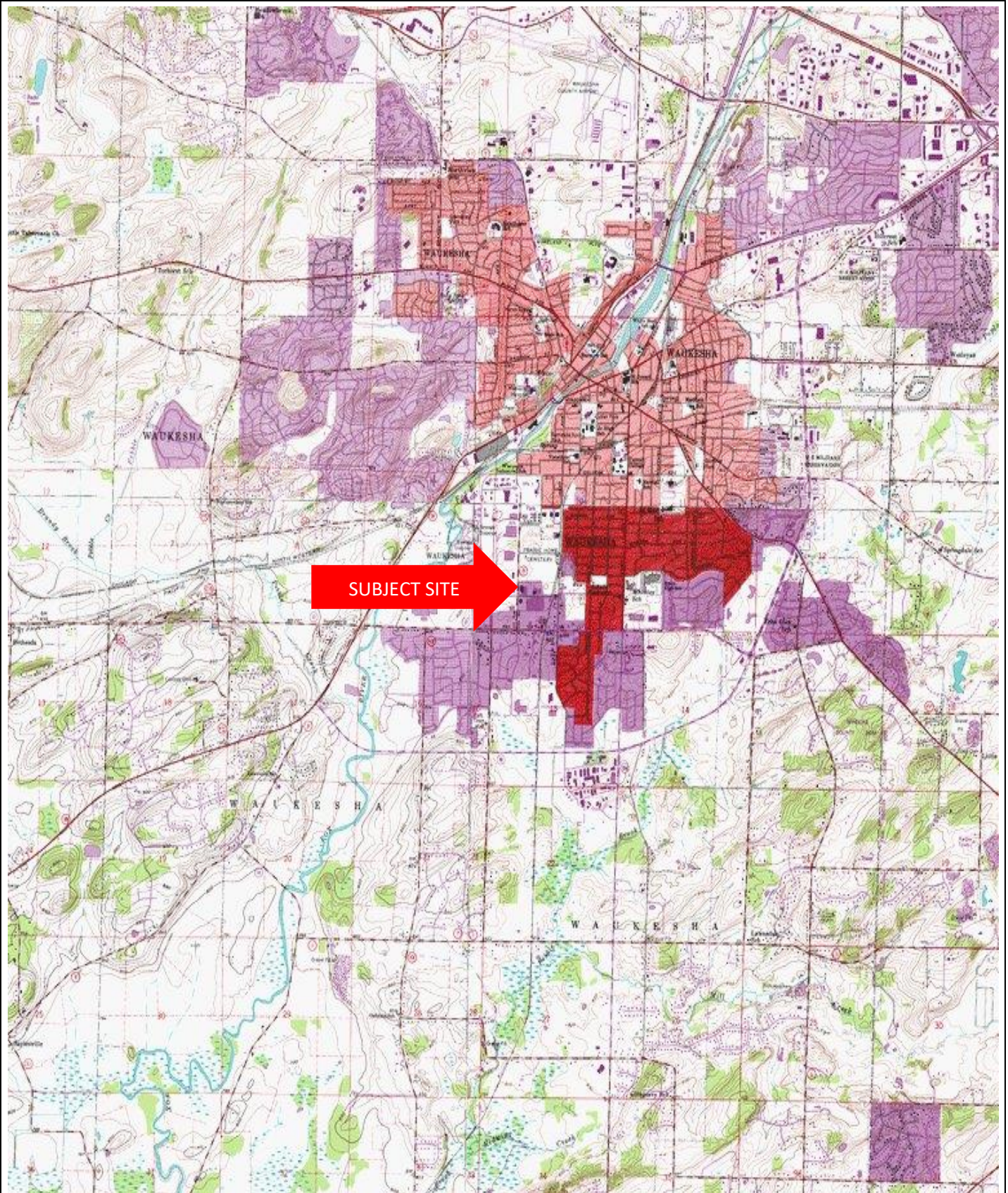
D'Arcy Gravelle, CPG, PG

Principal Hydrogeologist

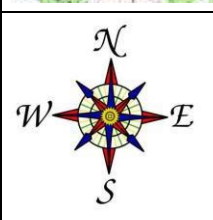
Attachments	Figure 1	Site Location Map
	Figure 2	Site Layout Map
	Attachment A	Emerging Contaminant Groundwater Data

C:\Projects\Schaefer Brush\1604-1204-0002

Figures



SUBJECT SITE

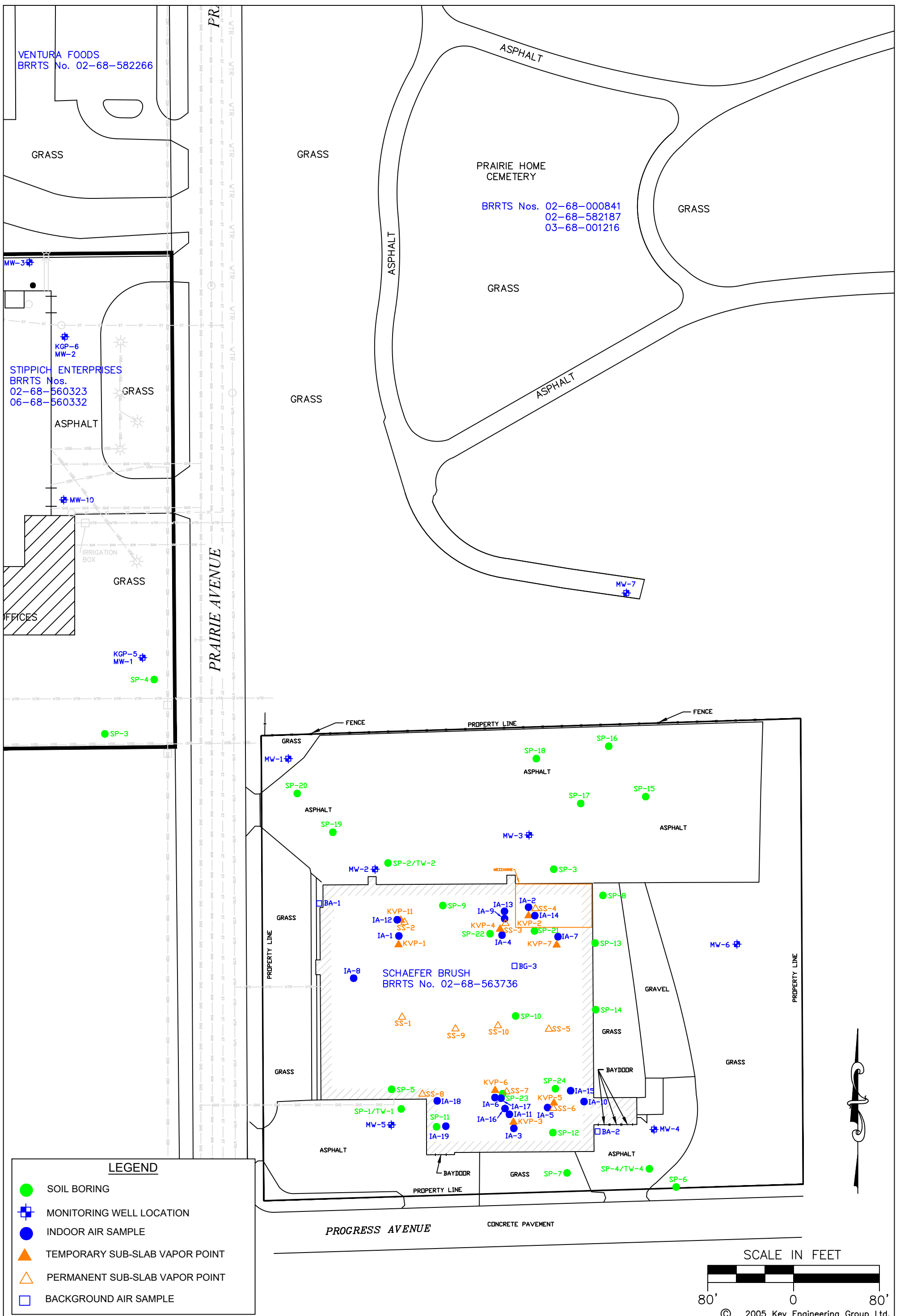


Project: 1604-1204-0002
Map Source: USGS
Map Date: 1960
Quadrangle Map: Muskego

FIGURE 1
 SITE LOCATION MAP
 SCHAEFER BRUSH
 1101 SOUTH PRAIRIE AVENUE
 WAUKESHA, WISCONSIN



A Division of SET Environmental Inc.



DESIGNED BY TLS	DATE 06/03/2019
DRAWN BY JMD	PROJECT 2503001.1
APPROVED BY TLS	SHEET NO. 1
CADFILE XREF LMAN	

FIGURE 2
SITE LAYOUT MAP
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WISCONSIN



Attachment A

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-213516-1
Client Project/Site: Schaefer Brush - 2202-0295-0001

For:
SET Engineering LLC
735 N Water Street
Suite 510
Milwaukee, Wisconsin 53202

Attn: Kyle Vander Heiden



Authorized for release by:
3/21/2022 6:28:23 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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



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Case Narrative

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Job ID: 500-213516-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-213516-1**

Comments

No additional comments.

Receipt

The samples were received on 3/11/2022 10:20 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 0.0° C.

LCMS

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

Organic Prep

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

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Detection Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: MW-2

Lab Sample ID: 500-213516-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.6		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.3		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.5		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.0		1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.23	J	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.5		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.80	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.32	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	33		1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 500-213516-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.9	J	4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.86	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.54	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.37	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.6	J	1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.1		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.9		1.8	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB-1

Lab Sample ID: 500-213516-3

No Detections.

Client Sample ID: FB-1

Lab Sample ID: 500-213516-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

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

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

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Sample Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-213516-1	MW-2	Water	03/09/22 16:00	03/11/22 10:20
500-213516-2	MW-3	Water	03/09/22 16:30	03/11/22 10:20
500-213516-3	EB-1	Water	03/09/22 16:45	03/11/22 10:20
500-213516-4	FB-1	Water	03/09/22 17:00	03/11/22 10:20

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Client Sample Results

Client: SET Engineering LLC
 Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: MW-2
Date Collected: 03/09/22 16:00
Date Received: 03/11/22 10:20

Lab Sample ID: 500-213516-1
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.6		4.3	2.1	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluoropentanoic acid (PFPeA)	2.3		1.7	0.42	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorohexanoic acid (PFHxA)	3.5		1.7	0.50	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluoroheptanoic acid (PFHpA)	1.8		1.7	0.22	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorooctanoic acid (PFOA)	5.0		1.7	0.73	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorononanoic acid (PFNA)	0.23	J	1.7	0.23	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.7	1.1	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.77		1.7	0.77	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81		1.7	0.81	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorobutanesulfonic acid (PFBS)	5.5		1.7	0.17	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluoropentanesulfonic acid (PFPeS)	0.80	J	1.7	0.26	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorohexanesulfonic acid (PFHxS)	13		1.7	0.49	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.32	J	1.7	0.16	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorooctanesulfonic acid (PFOS)	33		1.7	0.47	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		03/16/22 19:18	03/19/22 10:13	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		03/16/22 19:18	03/19/22 10:13	1
NEtFOSA	<0.75		1.7	0.75	ng/L		03/16/22 19:18	03/19/22 10:13	1
NMeFOSA	<0.37		1.7	0.37	ng/L		03/16/22 19:18	03/19/22 10:13	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		03/16/22 19:18	03/19/22 10:13	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		03/16/22 19:18	03/19/22 10:13	1
NMeFOSE	<1.2		3.4	1.2	ng/L		03/16/22 19:18	03/19/22 10:13	1
NEtFOSE	<0.73		1.7	0.73	ng/L		03/16/22 19:18	03/19/22 10:13	1
4:2 FTS	<0.21		1.7	0.21	ng/L		03/16/22 19:18	03/19/22 10:13	1
6:2 FTS	<2.2		4.3	2.2	ng/L		03/16/22 19:18	03/19/22 10:13	1
8:2 FTS	<0.40		1.7	0.40	ng/L		03/16/22 19:18	03/19/22 10:13	1
10:2 FTS	<0.58		1.7	0.58	ng/L		03/16/22 19:18	03/19/22 10:13	1
DONA	<0.34		1.7	0.34	ng/L		03/16/22 19:18	03/19/22 10:13	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		03/16/22 19:18	03/19/22 10:13	1
F-53B Major	<0.21		1.7	0.21	ng/L		03/16/22 19:18	03/19/22 10:13	1
F-53B Minor	<0.28		1.7	0.28	ng/L		03/16/22 19:18	03/19/22 10:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	78		25 - 150				03/16/22 19:18	03/19/22 10:13	1
13C5 PFPeA	83		25 - 150				03/16/22 19:18	03/19/22 10:13	1
13C2 PFHxA	95		25 - 150				03/16/22 19:18	03/19/22 10:13	1
13C4 PFHpA	86		25 - 150				03/16/22 19:18	03/19/22 10:13	1
13C4 PFOA	88		25 - 150				03/16/22 19:18	03/19/22 10:13	1
13C5 PFNA	94		25 - 150				03/16/22 19:18	03/19/22 10:13	1

Eurofins Chicago

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: MW-2
Date Collected: 03/09/22 16:00
Date Received: 03/11/22 10:20

Lab Sample ID: 500-213516-1
Matrix: Water

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C2 PFDA	87		25 - 150	03/16/22 19:18	03/19/22 10:13	1
13C2 PFUnA	78		25 - 150	03/16/22 19:18	03/19/22 10:13	1
13C2 PFDoA	79		25 - 150	03/16/22 19:18	03/19/22 10:13	1
13C2 PFTeDA	73		25 - 150	03/16/22 19:18	03/19/22 10:13	1
13C2 PFHxDA	70		25 - 150	03/16/22 19:18	03/19/22 10:13	1
13C3 PFBS	88		25 - 150	03/16/22 19:18	03/19/22 10:13	1
18O2 PFHxS	85		25 - 150	03/16/22 19:18	03/19/22 10:13	1
13C4 PFOS	83		25 - 150	03/16/22 19:18	03/19/22 10:13	1
13C8 FOSA	98		10 - 150	03/16/22 19:18	03/19/22 10:13	1
d3-NMeFOSAA	76		25 - 150	03/16/22 19:18	03/19/22 10:13	1
d5-NEtFOSAA	84		25 - 150	03/16/22 19:18	03/19/22 10:13	1
d-N-MeFOSA-M	69		10 - 150	03/16/22 19:18	03/19/22 10:13	1
d-N-EtFOSA-M	69		10 - 150	03/16/22 19:18	03/19/22 10:13	1
d7-N-MeFOSE-M	71		10 - 150	03/16/22 19:18	03/19/22 10:13	1
d9-N-EtFOSE-M	73		10 - 150	03/16/22 19:18	03/19/22 10:13	1
M2-4:2 FTS	85		25 - 150	03/16/22 19:18	03/19/22 10:13	1
M2-6:2 FTS	93		25 - 150	03/16/22 19:18	03/19/22 10:13	1
M2-8:2 FTS	90		25 - 150	03/16/22 19:18	03/19/22 10:13	1
13C3 HFPO-DA	90		25 - 150	03/16/22 19:18	03/19/22 10:13	1
13C2 10:2 FTS	97		25 - 150	03/16/22 19:18	03/19/22 10:13	1

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: MW-3
Date Collected: 03/09/22 16:30
Date Received: 03/11/22 10:20

Lab Sample ID: 500-213516-2
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.9	J	4.4	2.1	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluoropentanoic acid (PFPeA)	0.86	J	1.8	0.43	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorohexanoic acid (PFHxA)	0.54	J	1.8	0.51	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluoroheptanoic acid (PFHpA)	0.37	J	1.8	0.22	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorooctanoic acid (PFOA)	1.6	J	1.8	0.75	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.8	0.48	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.8	1.1	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.8	0.78	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.83		1.8	0.83	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorobutanesulfonic acid (PFBS)	3.1		1.8	0.18	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.8	0.26	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.8	0.50	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorooctanesulfonic acid (PFOS)	3.9		1.8	0.47	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.8	0.85	ng/L		03/16/22 19:18	03/19/22 10:23	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		03/16/22 19:18	03/19/22 10:23	1
NEtFOSA	<0.76		1.8	0.76	ng/L		03/16/22 19:18	03/19/22 10:23	1
NMeFOSA	<0.38		1.8	0.38	ng/L		03/16/22 19:18	03/19/22 10:23	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		03/16/22 19:18	03/19/22 10:23	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		03/16/22 19:18	03/19/22 10:23	1
NMeFOSE	<1.2		3.5	1.2	ng/L		03/16/22 19:18	03/19/22 10:23	1
NEtFOSE	<0.75		1.8	0.75	ng/L		03/16/22 19:18	03/19/22 10:23	1
4:2 FTS	<0.21		1.8	0.21	ng/L		03/16/22 19:18	03/19/22 10:23	1
6:2 FTS	<2.2		4.4	2.2	ng/L		03/16/22 19:18	03/19/22 10:23	1
8:2 FTS	<0.40		1.8	0.40	ng/L		03/16/22 19:18	03/19/22 10:23	1
10:2 FTS	<0.59		1.8	0.59	ng/L		03/16/22 19:18	03/19/22 10:23	1
DONA	<0.35		1.8	0.35	ng/L		03/16/22 19:18	03/19/22 10:23	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		03/16/22 19:18	03/19/22 10:23	1
F-53B Major	<0.21		1.8	0.21	ng/L		03/16/22 19:18	03/19/22 10:23	1
F-53B Minor	<0.28		1.8	0.28	ng/L		03/16/22 19:18	03/19/22 10:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	84		25 - 150				03/16/22 19:18	03/19/22 10:23	1
13C5 PFPeA	83		25 - 150				03/16/22 19:18	03/19/22 10:23	1
13C2 PFHxA	90		25 - 150				03/16/22 19:18	03/19/22 10:23	1
13C4 PFHpA	89		25 - 150				03/16/22 19:18	03/19/22 10:23	1
13C4 PFOA	88		25 - 150				03/16/22 19:18	03/19/22 10:23	1
13C5 PFNA	90		25 - 150				03/16/22 19:18	03/19/22 10:23	1

Client Sample Results

Client: SET Engineering LLC
 Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: MW-3
Date Collected: 03/09/22 16:30
Date Received: 03/11/22 10:20

Lab Sample ID: 500-213516-2
Matrix: Water

Method: 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 PFDA	84		25 - 150	03/16/22 19:18	03/19/22 10:23	1
13C2 PFUnA	80		25 - 150	03/16/22 19:18	03/19/22 10:23	1
13C2 PFDoA	80		25 - 150	03/16/22 19:18	03/19/22 10:23	1
13C2 PFTeDA	76		25 - 150	03/16/22 19:18	03/19/22 10:23	1
13C2 PFHxDA	74		25 - 150	03/16/22 19:18	03/19/22 10:23	1
13C3 PFBS	80		25 - 150	03/16/22 19:18	03/19/22 10:23	1
18O2 PFHxS	83		25 - 150	03/16/22 19:18	03/19/22 10:23	1
13C4 PFOS	81		25 - 150	03/16/22 19:18	03/19/22 10:23	1
13C8 FOSA	91		10 - 150	03/16/22 19:18	03/19/22 10:23	1
d3-NMeFOSAA	77		25 - 150	03/16/22 19:18	03/19/22 10:23	1
d5-NEtFOSAA	81		25 - 150	03/16/22 19:18	03/19/22 10:23	1
d-N-MeFOSA-M	69		10 - 150	03/16/22 19:18	03/19/22 10:23	1
d-N-EtFOSA-M	70		10 - 150	03/16/22 19:18	03/19/22 10:23	1
d7-N-MeFOSE-M	71		10 - 150	03/16/22 19:18	03/19/22 10:23	1
d9-N-EtFOSE-M	74		10 - 150	03/16/22 19:18	03/19/22 10:23	1
M2-4:2 FTS	93		25 - 150	03/16/22 19:18	03/19/22 10:23	1
M2-6:2 FTS	90		25 - 150	03/16/22 19:18	03/19/22 10:23	1
M2-8:2 FTS	90		25 - 150	03/16/22 19:18	03/19/22 10:23	1
13C3 HFPO-DA	81		25 - 150	03/16/22 19:18	03/19/22 10:23	1
13C2 10:2 FTS	91		25 - 150	03/16/22 19:18	03/19/22 10:23	1

Client Sample Results

Client: SET Engineering LLC
 Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: EB-1

Lab Sample ID: 500-213516-3

Date Collected: 03/09/22 16:45

Matrix: Water

Date Received: 03/11/22 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.2	2.0	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorohexanoic acid (PFHxA)	<0.49		1.7	0.49	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorooctanoic acid (PFOA)	<0.72		1.7	0.72	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.7	1.1	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.80		1.7	0.80	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.48		1.7	0.48	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		03/16/22 19:18	03/19/22 10:34	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		03/16/22 19:18	03/19/22 10:34	1
NEtFOSA	<0.74		1.7	0.74	ng/L		03/16/22 19:18	03/19/22 10:34	1
NMeFOSA	<0.36		1.7	0.36	ng/L		03/16/22 19:18	03/19/22 10:34	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		03/16/22 19:18	03/19/22 10:34	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		03/16/22 19:18	03/19/22 10:34	1
NMeFOSE	<1.2		3.4	1.2	ng/L		03/16/22 19:18	03/19/22 10:34	1
NEtFOSE	<0.72		1.7	0.72	ng/L		03/16/22 19:18	03/19/22 10:34	1
4:2 FTS	<0.20		1.7	0.20	ng/L		03/16/22 19:18	03/19/22 10:34	1
6:2 FTS	<2.1		4.2	2.1	ng/L		03/16/22 19:18	03/19/22 10:34	1
8:2 FTS	<0.39		1.7	0.39	ng/L		03/16/22 19:18	03/19/22 10:34	1
10:2 FTS	<0.57		1.7	0.57	ng/L		03/16/22 19:18	03/19/22 10:34	1
DONA	<0.34		1.7	0.34	ng/L		03/16/22 19:18	03/19/22 10:34	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		03/16/22 19:18	03/19/22 10:34	1
F-53B Major	<0.20		1.7	0.20	ng/L		03/16/22 19:18	03/19/22 10:34	1
F-53B Minor	<0.27		1.7	0.27	ng/L		03/16/22 19:18	03/19/22 10:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	84		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C5 PFPeA	83		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C2 PFHxA	88		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C4 PFHpA	86		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C4 PFOA	91		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C5 PFNA	91		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C2 PFDA	91		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C2 PFUnA	87		25 - 150	03/16/22 19:18	03/19/22 10:34	1

Eurofins Chicago

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: EB-1

Lab Sample ID: 500-213516-3

Date Collected: 03/09/22 16:45

Matrix: Water

Date Received: 03/11/22 10:20

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C2 PFDoA	82		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C2 PFTeDA	84		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C2 PFHxDA	73		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C3 PFBS	75		25 - 150	03/16/22 19:18	03/19/22 10:34	1
18O2 PFHxS	83		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C4 PFOS	81		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C8 FOSA	90		10 - 150	03/16/22 19:18	03/19/22 10:34	1
d3-NMeFOSAA	85		25 - 150	03/16/22 19:18	03/19/22 10:34	1
d5-NEtFOSAA	92		25 - 150	03/16/22 19:18	03/19/22 10:34	1
d-N-MeFOSA-M	73		10 - 150	03/16/22 19:18	03/19/22 10:34	1
d-N-EtFOSA-M	74		10 - 150	03/16/22 19:18	03/19/22 10:34	1
d7-N-MeFOSE-M	81		10 - 150	03/16/22 19:18	03/19/22 10:34	1
d9-N-EtFOSE-M	80		10 - 150	03/16/22 19:18	03/19/22 10:34	1
M2-4:2 FTS	95		25 - 150	03/16/22 19:18	03/19/22 10:34	1
M2-6:2 FTS	82		25 - 150	03/16/22 19:18	03/19/22 10:34	1
M2-8:2 FTS	95		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C3 HFPO-DA	83		25 - 150	03/16/22 19:18	03/19/22 10:34	1
13C2 10:2 FTS	99		25 - 150	03/16/22 19:18	03/19/22 10:34	1

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: FB-1

Lab Sample ID: 500-213516-4

Date Collected: 03/09/22 17:00

Matrix: Water

Date Received: 03/11/22 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.3	2.1	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.7	1.1	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.80		1.7	0.80	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		03/16/22 19:18	03/19/22 10:44	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		03/16/22 19:18	03/19/22 10:44	1
NEtFOSA	<0.74		1.7	0.74	ng/L		03/16/22 19:18	03/19/22 10:44	1
NMeFOSA	<0.37		1.7	0.37	ng/L		03/16/22 19:18	03/19/22 10:44	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		03/16/22 19:18	03/19/22 10:44	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		03/16/22 19:18	03/19/22 10:44	1
NMeFOSE	<1.2		3.4	1.2	ng/L		03/16/22 19:18	03/19/22 10:44	1
NEtFOSE	<0.73		1.7	0.73	ng/L		03/16/22 19:18	03/19/22 10:44	1
4:2 FTS	<0.21		1.7	0.21	ng/L		03/16/22 19:18	03/19/22 10:44	1
6:2 FTS	<2.1		4.3	2.1	ng/L		03/16/22 19:18	03/19/22 10:44	1
8:2 FTS	<0.39		1.7	0.39	ng/L		03/16/22 19:18	03/19/22 10:44	1
10:2 FTS	<0.57		1.7	0.57	ng/L		03/16/22 19:18	03/19/22 10:44	1
DONA	<0.34		1.7	0.34	ng/L		03/16/22 19:18	03/19/22 10:44	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		03/16/22 19:18	03/19/22 10:44	1
F-53B Major	<0.21		1.7	0.21	ng/L		03/16/22 19:18	03/19/22 10:44	1
F-53B Minor	<0.27		1.7	0.27	ng/L		03/16/22 19:18	03/19/22 10:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	81		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C5 PFPeA	82		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C2 PFHxA	89		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C4 PFHpA	84		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C4 PFOA	89		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C5 PFNA	90		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C2 PFDA	87		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C2 PFUnA	85		25 - 150	03/16/22 19:18	03/19/22 10:44	1

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Client Sample Results

Client: SET Engineering LLC
 Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: FB-1

Lab Sample ID: 500-213516-4

Date Collected: 03/09/22 17:00

Matrix: Water

Date Received: 03/11/22 10:20

Method: 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	84		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C2 PFTeDA	80		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C2 PFHxDA	78		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C3 PFBS	77		25 - 150	03/16/22 19:18	03/19/22 10:44	1
18O2 PFHxS	81		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C4 PFOS	84		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C8 FOSA	89		10 - 150	03/16/22 19:18	03/19/22 10:44	1
d3-NMeFOSAA	83		25 - 150	03/16/22 19:18	03/19/22 10:44	1
d5-NEtFOSAA	90		25 - 150	03/16/22 19:18	03/19/22 10:44	1
d-N-MeFOSA-M	71		10 - 150	03/16/22 19:18	03/19/22 10:44	1
d-N-EtFOSA-M	72		10 - 150	03/16/22 19:18	03/19/22 10:44	1
d7-N-MeFOSE-M	81		10 - 150	03/16/22 19:18	03/19/22 10:44	1
d9-N-EtFOSE-M	80		10 - 150	03/16/22 19:18	03/19/22 10:44	1
M2-4:2 FTS	105		25 - 150	03/16/22 19:18	03/19/22 10:44	1
M2-6:2 FTS	94		25 - 150	03/16/22 19:18	03/19/22 10:44	1
M2-8:2 FTS	90		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C3 HFPO-DA	86		25 - 150	03/16/22 19:18	03/19/22 10:44	1
13C2 10:2 FTS	92		25 - 150	03/16/22 19:18	03/19/22 10:44	1

Definitions/Glossary

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

LCMS

Prep Batch: 573543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213516-1	MW-2	Total/NA	Water	3535	
500-213516-2	MW-3	Total/NA	Water	3535	
500-213516-3	EB-1	Total/NA	Water	3535	
500-213516-4	FB-1	Total/NA	Water	3535	
MB 320-573543/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-573543/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 574336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213516-1	MW-2	Total/NA	Water	537 (modified)	573543
500-213516-2	MW-3	Total/NA	Water	537 (modified)	573543
500-213516-3	EB-1	Total/NA	Water	537 (modified)	573543
500-213516-4	FB-1	Total/NA	Water	537 (modified)	573543
MB 320-573543/1-A	Method Blank	Total/NA	Water	537 (modified)	573543
LCS 320-573543/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	573543

QC Sample Results

Client: SET Engineering LLC
 Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-573543/1-A
Matrix: Water
Analysis Batch: 574336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573543

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		03/16/22 19:18	03/19/22 09:23	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		03/16/22 19:18	03/19/22 09:23	1
NEtFOSA	<0.87		2.0	0.87	ng/L		03/16/22 19:18	03/19/22 09:23	1
NMeFOSA	<0.43		2.0	0.43	ng/L		03/16/22 19:18	03/19/22 09:23	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		03/16/22 19:18	03/19/22 09:23	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		03/16/22 19:18	03/19/22 09:23	1
NMeFOSE	<1.4		4.0	1.4	ng/L		03/16/22 19:18	03/19/22 09:23	1
NEtFOSE	<0.85		2.0	0.85	ng/L		03/16/22 19:18	03/19/22 09:23	1
4:2 FTS	<0.24		2.0	0.24	ng/L		03/16/22 19:18	03/19/22 09:23	1
6:2 FTS	<2.5		5.0	2.5	ng/L		03/16/22 19:18	03/19/22 09:23	1
8:2 FTS	<0.46		2.0	0.46	ng/L		03/16/22 19:18	03/19/22 09:23	1
10:2 FTS	<0.67		2.0	0.67	ng/L		03/16/22 19:18	03/19/22 09:23	1
DONA	<0.40		2.0	0.40	ng/L		03/16/22 19:18	03/19/22 09:23	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		03/16/22 19:18	03/19/22 09:23	1
F-53B Major	<0.24		2.0	0.24	ng/L		03/16/22 19:18	03/19/22 09:23	1
F-53B Minor	<0.32		2.0	0.32	ng/L		03/16/22 19:18	03/19/22 09:23	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	83		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C5 PFPeA	85		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C2 PFHxA	93		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C4 PFHpA	85		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C4 PFOA	86		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C5 PFNA	92		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C2 PFDA	92		25 - 150	03/16/22 19:18	03/19/22 09:23	1

Eurofins Chicago

QC Sample Results

Client: SET Engineering LLC
 Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

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

Lab Sample ID: MB 320-573543/1-A
Matrix: Water
Analysis Batch: 574336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573543

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFUnA	89		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C2 PFDoA	89		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C2 PFTeDA	80		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C2 PFHxDA	76		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C3 PFBS	81		25 - 150	03/16/22 19:18	03/19/22 09:23	1
18O2 PFHxS	90		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C4 PFOS	93		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C8 FOSA	99		10 - 150	03/16/22 19:18	03/19/22 09:23	1
d3-NMeFOSAA	88		25 - 150	03/16/22 19:18	03/19/22 09:23	1
d5-NEtFOSAA	98		25 - 150	03/16/22 19:18	03/19/22 09:23	1
d-N-MeFOSA-M	78		10 - 150	03/16/22 19:18	03/19/22 09:23	1
d-N-EtFOSA-M	77		10 - 150	03/16/22 19:18	03/19/22 09:23	1
d7-N-MeFOSE-M	83		10 - 150	03/16/22 19:18	03/19/22 09:23	1
d9-N-EtFOSE-M	81		10 - 150	03/16/22 19:18	03/19/22 09:23	1
M2-4:2 FTS	96		25 - 150	03/16/22 19:18	03/19/22 09:23	1
M2-6:2 FTS	105		25 - 150	03/16/22 19:18	03/19/22 09:23	1
M2-8:2 FTS	99		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C3 HFPO-DA	81		25 - 150	03/16/22 19:18	03/19/22 09:23	1
13C2 10:2 FTS	114		25 - 150	03/16/22 19:18	03/19/22 09:23	1

Lab Sample ID: LCS 320-573543/2-A
Matrix: Water
Analysis Batch: 574336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoropentanoic acid (PFPeA)	40.0	47.7		ng/L		119	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.1		ng/L		103	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	46.2		ng/L		116	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	40.4		ng/L		101	60 - 135
Perfluorononanoic acid (PFNA)	40.0	44.9		ng/L		112	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	39.0		ng/L		98	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	45.3		ng/L		113	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	44.0		ng/L		110	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	44.8		ng/L		112	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	41.4		ng/L		104	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	48.6		ng/L		121	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	43.2		ng/L		108	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	40.9		ng/L		116	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	39.3		ng/L		105	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	38.9		ng/L		107	60 - 135

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QC Sample Results

Client: SET Engineering LLC
 Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

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

Lab Sample ID: LCS 320-573543/2-A
Matrix: Water
Analysis Batch: 574336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.3		ng/L		108	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	42.4		ng/L		114	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	42.9		ng/L		112	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	44.4		ng/L		115	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	40.1		ng/L		104	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	38.0		ng/L		95	60 - 135
NEtFOSA	40.0	44.5		ng/L		111	60 - 135
NMeFOSA	40.0	44.7		ng/L		112	60 - 135
NMeFOSAA	40.0	44.4		ng/L		111	60 - 135
NEtFOSAA	40.0	39.3		ng/L		98	60 - 135
NMeFOSE	40.0	44.1		ng/L		110	60 - 135
NEtFOSE	40.0	40.1		ng/L		100	60 - 135
4:2 FTS	37.4	39.3		ng/L		105	60 - 135
6:2 FTS	37.9	37.3		ng/L		98	60 - 135
8:2 FTS	38.3	41.7		ng/L		109	60 - 135
10:2 FTS	38.6	40.7		ng/L		106	60 - 135
DONA	37.7	45.3		ng/L		120	60 - 135
HFPO-DA (GenX)	40.0	47.4		ng/L		118	60 - 135
F-53B Major	37.3	41.4		ng/L		111	60 - 135
F-53B Minor	37.7	42.3		ng/L		112	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	85		25 - 150
13C5 PFPeA	87		25 - 150
13C2 PFHxA	88		25 - 150
13C4 PFHpA	91		25 - 150
13C4 PFOA	92		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	91		25 - 150
13C2 PFDoA	87		25 - 150
13C2 PFTeDA	84		25 - 150
13C2 PFHxDA	69		25 - 150
13C3 PFBS	83		25 - 150
18O2 PFHxS	87		25 - 150
13C4 PFOS	86		25 - 150
13C8 FOSA	98		10 - 150
d3-NMeFOSAA	90		25 - 150
d5-NEtFOSAA	97		25 - 150
d-N-MeFOSA-M	77		10 - 150
d-N-EtFOSA-M	77		10 - 150
d7-N-MeFOSE-M	84		10 - 150
d9-N-EtFOSE-M	85		10 - 150
M2-4:2 FTS	100		25 - 150

QC Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

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

Lab Sample ID: LCS 320-573543/2-A
Matrix: Water
Analysis Batch: 574336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573543

<i>Isotope Dilution</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-6:2 FTS	95		25 - 150
M2-8:2 FTS	101		25 - 150
13C3 HFPO-DA	87		25 - 150
13C2 10:2 FTS	102		25 - 150

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Lab Chronicle

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Client Sample ID: MW-2

Date Collected: 03/09/22 16:00

Date Received: 03/11/22 10:20

Lab Sample ID: 500-213516-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			573543	03/16/22 19:18	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1	574336	03/19/22 10:13	K1S	TAL SAC

Client Sample ID: MW-3

Date Collected: 03/09/22 16:30

Date Received: 03/11/22 10:20

Lab Sample ID: 500-213516-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			573543	03/16/22 19:18	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1	574336	03/19/22 10:23	K1S	TAL SAC

Client Sample ID: EB-1

Date Collected: 03/09/22 16:45

Date Received: 03/11/22 10:20

Lab Sample ID: 500-213516-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			573543	03/16/22 19:18	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1	574336	03/19/22 10:34	K1S	TAL SAC

Client Sample ID: FB-1

Date Collected: 03/09/22 17:00

Date Received: 03/11/22 10:20

Lab Sample ID: 500-213516-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			573543	03/16/22 19:18	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1	574336	03/19/22 10:44	K1S	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-22

- 1
- 2
- 3
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- 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

eurofins

Client Information		Sample # K Vander Heiden	Lab PM Fredrick Sandie	Carrier Tracking No(s)	COC No 500-99286-4347-1																																								
Client Contact Kyle Vander Heiden		Phone	E Mail sandra.fredrick@eurofinset.com	State of Origin WI	Page Page 1 of 1																																								
Company SET Engineering LLC		PWSID	Analysis Requested																																										
Address 735 N Water Street Suite 510		Due Date Requested	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;"> TAT Requested (days) Standard </td> <td style="width:50%; text-align: center;"> Preservation Codes A -IC M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E Natr-SO4 Q Na2SO3 F MeOH R Na2 CO3 G Ammonia S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice J Acetone K EDTA V MCAA L EDA W pH 4.5 Z Other (specify) </td> </tr> <tr> <td colspan="2" style="text-align: center;"> Other: </td> </tr> </table>			TAT Requested (days) Standard	Preservation Codes A -IC M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E Natr-SO4 Q Na2SO3 F MeOH R Na2 CO3 G Ammonia S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice J Acetone K EDTA V MCAA L EDA W pH 4.5 Z Other (specify)	Other:																																					
TAT Requested (days) Standard	Preservation Codes A -IC M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E Natr-SO4 Q Na2SO3 F MeOH R Na2 CO3 G Ammonia S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice J Acetone K EDTA V MCAA L EDA W pH 4.5 Z Other (specify)																																												
Other:																																													
City Milwaukee		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																																											
State Zip WI 53202		PC # 22023212																																											
Phone		WO #																																											
Email kvanderheiden@setenv.com		Project # 50014511	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;"> Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) </td> <td style="width:50%; text-align: center;"> Total Number of Containers </td> </tr> <tr> <td colspan="2" style="text-align: center;"> PFC_IDA_WI PFAS Standard List (See Analytes) </td> </tr> </table>			Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)	Total Number of Containers	PFC_IDA_WI PFAS Standard List (See Analytes)																																					
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)	Total Number of Containers																																												
PFC_IDA_WI PFAS Standard List (See Analytes)																																													
Project Name Schaefer Brush 2202 0295 0001		SO#	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;"> Sample Identification </td> <td style="width:10%; text-align: center;"> Sample Date </td> <td style="width:10%; text-align: center;"> Sample Time </td> <td style="width:10%; text-align: center;"> Sample Type (C=Comp, G=grab) </td> <td style="width:10%; text-align: center;"> Matrix (W=water, S=solid, O=wash, B) </td> <td style="width:10%; text-align: center;"> BT-Tissue Air/Air </td> <td style="width:10%; text-align: center;"> Preservation Code </td> <td style="width:10%; text-align: center;"> Special Instructions/Note </td> </tr> <tr> <td style="text-align: center;">MW-2</td> <td style="text-align: center;">3/9/2022</td> <td style="text-align: center;">1600</td> <td style="text-align: center;">G</td> <td style="text-align: center;">Water</td> <td style="text-align: center;">x</td> <td style="text-align: center;">N</td> <td></td> </tr> <tr> <td style="text-align: center;">MW-3</td> <td style="text-align: center;">3/9/2022</td> <td style="text-align: center;">1630</td> <td style="text-align: center;">G</td> <td style="text-align: center;">Water</td> <td style="text-align: center;">x</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">EB-1</td> <td style="text-align: center;">3/9/2022</td> <td style="text-align: center;">1645</td> <td style="text-align: center;">G</td> <td style="text-align: center;">Water</td> <td style="text-align: center;">x</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">FB-1</td> <td style="text-align: center;">3/9/2022</td> <td style="text-align: center;">1700</td> <td style="text-align: center;">G</td> <td style="text-align: center;">Water</td> <td style="text-align: center;">x</td> <td></td> <td></td> </tr> </table>			Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wash, B)	BT-Tissue Air/Air	Preservation Code	Special Instructions/Note	MW-2	3/9/2022	1600	G	Water	x	N		MW-3	3/9/2022	1630	G	Water	x			EB-1	3/9/2022	1645	G	Water	x			FB-1	3/9/2022	1700	G	Water	x		
Sample Identification	Sample Date	Sample Time				Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wash, B)	BT-Tissue Air/Air	Preservation Code	Special Instructions/Note																																			
MW-2	3/9/2022	1600	G	Water	x	N																																							
MW-3	3/9/2022	1630	G	Water	x																																								
EB-1	3/9/2022	1645	G	Water	x																																								
FB-1	3/9/2022	1700	G	Water	x																																								
State		SO#																																											
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 3/10/2022 11AM	Company SET	Received by <i>[Signature]</i>																																									
Relinquished by <i>[Signature]</i>		Date/Time 3/10/22 1700	Company Eurofins	Received by <i>[Signature]</i>																																									
Relinquished by		Date/Time	Company	Received by																																									
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Location Temp (°C and other Remarks) 0.540.0																																									

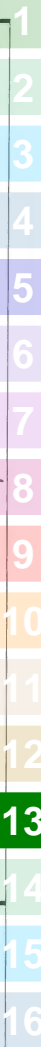
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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:					
Client Contact:		Phone:	Frederick, Sandie	500-158088-1	500-158088-1					
Shipping/Receiving		E-Mail:	sandra.fredrick@eurofinset.com	State of Origin:	Page 1 of 1					
Company:		Accreditations Required (See note):	State - Wisconsin; State Program - Wisconsin	Job #:	500-213516-1					
Address:		Due Date Requested:	Analysis Requested							
880 Riverside Parkway,		3/24/2022	A - HCl							
City:		TAT Requested (days):	M - Hexane							
West Sacramento			N - None							
State, Zip:			O - AsNaO2							
CA, 95605			P - Na2O4S							
Phone:			Q - Na2SO3							
916-373-5600(Tel) 916-372-1059(Fax)			R - Na2S2O3							
Email:			S - H2SO4							
			T - TSP Dodecahydrate							
Project Name:			U - Acetone							
Schaefer Brush - 2202-0295-0001			V - MCAA							
Site:			W - pH 4-5							
			L - EDTA							
			Z - other (specify)							
			Other:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC IDA W/3535_PFC_28D PFAS, Standard List (36)	Analytes	Total Number of Containers	Special Instructions/Note:
MW-2 (500-213516-1)	3/9/22	16:00 Central	Water	Water	X	X			2	
MW-3 (500-213516-2)	3/9/22	16:30 Central	Water	Water	X	X			2	
EB-1 (500-213516-3)	3/9/22	16:45 Central	Water	Water	X	X			2	
FB-1 (500-213516-4)	3/9/22	17:00 Central	Water	Water	X	X			2	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>										
Possible Hazard Identification										
<input type="checkbox"/> Unconfirmed <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) Primary Deliverable Rank: 2										
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____										
Relinquished by: <i>Shirley Smith</i> Date/Time: 3/15/23 11:02 AM Company: <i>PEPSAC</i>										
Relinquished by: _____ Date/Time: _____ Company: _____										
Relinquished by: _____ Date/Time: _____ Company: _____										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 0.4										



Login Sample Receipt Checklist

Client: SET Engineering LLC

Job Number: 500-213516-1

Login Number: 213516

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

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	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SET Engineering LLC

Job Number: 500-213516-1

Login Number: 213516

List Number: 2

Creator: Cahill, Nicholas P

List Source: Eurofins Sacramento

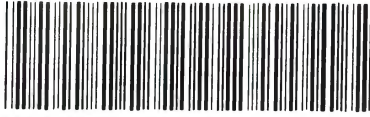
List Creation: 03/14/22 12:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1922500
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	0.4C
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?	False	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Environment Testing
TestAmerica

Sacramento
Sample Receiving Notes



500-213516 Field Sheet

Tracking #: 189344558909

Job: _____

SO / PO / 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.

Therm. ID: L-09 Corr. Factor: (+/-) NA °C
Ice Wet Gel _____ Other _____
Cooler Custody Seal: 1922500
Cooler ID: _____
Temp Observed: 0.4 °C Corrected: 0.4 °C
From: Temp Blank Sample

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: LM Date: 3/14/22

Unpacking/Labeling The Samples	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"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Containers are not broken or leaking?	<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"/>
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: NC Date: 3-14-22

Notes: _____

Trizma Lot #(s): _____

Login Completion	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 Filled?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: MC Date: 3-14-22

WR3-058

Isotope Dilution Summary

Client: SET Engineering LLC
 Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

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)
500-213516-1	MW-2	78	83	95	86	88	94	87	78
500-213516-2	MW-3	84	83	90	89	88	90	84	80
500-213516-3	EB-1	84	83	88	86	91	91	91	87
500-213516-4	FB-1	81	82	89	84	89	90	87	85
LCS 320-573543/2-A	Lab Control Sample	85	87	88	91	92	93	93	91
MB 320-573543/1-A	Method Blank	83	85	93	85	86	92	92	89

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-213516-1	MW-2	79	73	70	88	85	83	98	76
500-213516-2	MW-3	80	76	74	80	83	81	91	77
500-213516-3	EB-1	82	84	73	75	83	81	90	85
500-213516-4	FB-1	84	80	78	77	81	84	89	83
LCS 320-573543/2-A	Lab Control Sample	87	84	69	83	87	86	98	90
MB 320-573543/1-A	Method Blank	89	80	76	81	90	93	99	88

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
500-213516-1	MW-2	84	69	69	71	73	85	93	90
500-213516-2	MW-3	81	69	70	71	74	93	90	90
500-213516-3	EB-1	92	73	74	81	80	95	82	95
500-213516-4	FB-1	90	71	72	81	80	105	94	90
LCS 320-573543/2-A	Lab Control Sample	97	77	77	84	85	100	95	101
MB 320-573543/1-A	Method Blank	98	78	77	83	81	96	105	99

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-213516-1	MW-2	90	97
500-213516-2	MW-3	81	91
500-213516-3	EB-1	83	99
500-213516-4	FB-1	86	92
LCS 320-573543/2-A	Lab Control Sample	87	102
MB 320-573543/1-A	Method Blank	81	114

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
- PFHxDA = 13C2 PFHxDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS

Isotope Dilution Summary

Client: SET Engineering LLC

Project/Site: Schaefer Brush - 2202-0295-0001

Job ID: 500-213516-1

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

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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-80410-1
Client Project/Site: Schaefer Brush

For:
SET Engineering LLC
735 N Water Street
Suite 510
Milwaukee, Wisconsin 53202

Attn: Toni Schoen



Authorized for release by:
10/26/2021 3:05:52 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

Review your project
results through
TotalAccess

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www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Job ID: 320-80410-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-80410-1

Comments

No additional comments.

Receipt

The samples were received on 10/15/2021 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 3.0° C.

LCMS

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

Organic Prep

Method 3535: The following sample contains a thin layer of sediments at the bottom of the bottle prior to extraction: MW-2 (320-80410-1). preparation batch 320-535416 Method code: 3535_PFC_28D Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following sample contain non-settleable particulates which clogged the solid phase extraction column: MW-2 (320-80410-1). preparation batch 320-535416 Method code: 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: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: MW-2

Lab Sample ID: 320-80410-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.4	J	4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.8	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.6		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.4		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.5		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.70	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	12		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	25		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 320-80410-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.65	J	1.9	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.68	J	1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.6	J	1.9	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.8	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.1		1.9	0.52	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB

Lab Sample ID: 320-80410-3

No Detections.

Client Sample ID: EB

Lab Sample ID: 320-80410-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: MW-2
Date Collected: 10/14/21 15:20
Date Received: 10/15/21 09:30

Lab Sample ID: 320-80410-1
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.4	J	4.7	2.2	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluoropentanoic acid (PFPeA)	1.8	J	1.9	0.46	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorohexanoic acid (PFHxA)	3.6		1.9	0.54	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	0.23	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorooctanoic acid (PFOA)	4.4		1.9	0.80	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorobutanesulfonic acid (PFBS)	4.5		1.9	0.19	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluoropentanesulfonic acid (PFPeS)	0.70	J	1.9	0.28	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorohexanesulfonic acid (PFHxS)	12		1.9	0.53	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorooctanesulfonic acid (PFOS)	25		1.9	0.51	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/19/21 14:01	10/21/21 02:43	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/19/21 14:01	10/21/21 02:43	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/19/21 14:01	10/21/21 02:43	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/19/21 14:01	10/21/21 02:43	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		10/19/21 14:01	10/21/21 02:43	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		10/19/21 14:01	10/21/21 02:43	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/19/21 14:01	10/21/21 02:43	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/19/21 14:01	10/21/21 02:43	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/19/21 14:01	10/21/21 02:43	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/19/21 14:01	10/21/21 02:43	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/19/21 14:01	10/21/21 02:43	1
10:2 FTS	<0.63		1.9	0.63	ng/L		10/19/21 14:01	10/21/21 02:43	1
DONA	<0.37		1.9	0.37	ng/L		10/19/21 14:01	10/21/21 02:43	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/19/21 14:01	10/21/21 02:43	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/19/21 14:01	10/21/21 02:43	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/19/21 14:01	10/21/21 02:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	64		25 - 150				10/19/21 14:01	10/21/21 02:43	1
13C5 PFPeA	64		25 - 150				10/19/21 14:01	10/21/21 02:43	1
13C2 PFHxA	60		25 - 150				10/19/21 14:01	10/21/21 02:43	1
13C4 PFHpA	69		25 - 150				10/19/21 14:01	10/21/21 02:43	1
13C4 PFOA	70		25 - 150				10/19/21 14:01	10/21/21 02:43	1
13C5 PFNA	68		25 - 150				10/19/21 14:01	10/21/21 02:43	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: MW-2

Lab Sample ID: 320-80410-1

Date Collected: 10/14/21 15:20

Matrix: Water

Date Received: 10/15/21 09:30

Method: 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 PFDA	59		25 - 150	10/19/21 14:01	10/21/21 02:43	1
13C2 PFUnA	54		25 - 150	10/19/21 14:01	10/21/21 02:43	1
13C2 PFDoA	56		25 - 150	10/19/21 14:01	10/21/21 02:43	1
13C2 PFTeDA	55		25 - 150	10/19/21 14:01	10/21/21 02:43	1
13C2 PFHxDA	58		25 - 150	10/19/21 14:01	10/21/21 02:43	1
13C3 PFBS	66		25 - 150	10/19/21 14:01	10/21/21 02:43	1
18O2 PFHxS	76		25 - 150	10/19/21 14:01	10/21/21 02:43	1
13C4 PFOS	66		25 - 150	10/19/21 14:01	10/21/21 02:43	1
13C8 FOSA	62		10 - 150	10/19/21 14:01	10/21/21 02:43	1
d3-NMeFOSAA	53		25 - 150	10/19/21 14:01	10/21/21 02:43	1
d5-NEtFOSAA	53		25 - 150	10/19/21 14:01	10/21/21 02:43	1
d-N-MeFOSA-M	43		10 - 150	10/19/21 14:01	10/21/21 02:43	1
d-N-EtFOSA-M	38		10 - 150	10/19/21 14:01	10/21/21 02:43	1
d7-N-MeFOSE-M	39		10 - 150	10/19/21 14:01	10/21/21 02:43	1
d9-N-EtFOSE-M	38		10 - 150	10/19/21 14:01	10/21/21 02:43	1
M2-4:2 FTS	62		25 - 150	10/19/21 14:01	10/21/21 02:43	1
M2-6:2 FTS	77		25 - 150	10/19/21 14:01	10/21/21 02:43	1
M2-8:2 FTS	61		25 - 150	10/19/21 14:01	10/21/21 02:43	1
13C3 HFPO-DA	58		25 - 150	10/19/21 14:01	10/21/21 02:43	1
13C2 10:2 FTS	60		25 - 150	10/19/21 14:01	10/21/21 02:43	1

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: MW-3

Lab Sample ID: 320-80410-2

Date Collected: 10/14/21 15:40

Matrix: Water

Date Received: 10/15/21 09:30

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluoropentanoic acid (PFPeA)	0.65	J	1.9	0.48	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorohexanoic acid (PFHxA)	0.68	J	1.9	0.56	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorooctanoic acid (PFOA)	1.6	J	1.9	0.83	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.86		1.9	0.86	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.91		1.9	0.91	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorobutanesulfonic acid (PFBS)	1.8	J	1.9	0.19	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.9	0.55	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorooctanesulfonic acid (PFOS)	4.1		1.9	0.52	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		10/19/21 14:01	10/21/21 02:53	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		10/19/21 14:01	10/21/21 02:53	1
NEtFOSA	<0.85		1.9	0.85	ng/L		10/19/21 14:01	10/21/21 02:53	1
NMeFOSA	<0.42		1.9	0.42	ng/L		10/19/21 14:01	10/21/21 02:53	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		10/19/21 14:01	10/21/21 02:53	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		10/19/21 14:01	10/21/21 02:53	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/19/21 14:01	10/21/21 02:53	1
NEtFOSE	<0.83		1.9	0.83	ng/L		10/19/21 14:01	10/21/21 02:53	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/19/21 14:01	10/21/21 02:53	1
6:2 FTS	<2.4		4.9	2.4	ng/L		10/19/21 14:01	10/21/21 02:53	1
8:2 FTS	<0.45		1.9	0.45	ng/L		10/19/21 14:01	10/21/21 02:53	1
10:2 FTS	<0.65		1.9	0.65	ng/L		10/19/21 14:01	10/21/21 02:53	1
DONA	<0.39		1.9	0.39	ng/L		10/19/21 14:01	10/21/21 02:53	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/19/21 14:01	10/21/21 02:53	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/19/21 14:01	10/21/21 02:53	1
F-53B Minor	<0.31		1.9	0.31	ng/L		10/19/21 14:01	10/21/21 02:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	73		25 - 150				10/19/21 14:01	10/21/21 02:53	1
13C5 PFPeA	70		25 - 150				10/19/21 14:01	10/21/21 02:53	1
13C2 PFHxA	68		25 - 150				10/19/21 14:01	10/21/21 02:53	1
13C4 PFHpA	71		25 - 150				10/19/21 14:01	10/21/21 02:53	1
13C4 PFOA	79		25 - 150				10/19/21 14:01	10/21/21 02:53	1
13C5 PFNA	74		25 - 150				10/19/21 14:01	10/21/21 02:53	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: MW-3

Lab Sample ID: 320-80410-2

Date Collected: 10/14/21 15:40

Matrix: Water

Date Received: 10/15/21 09:30

Method: 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 PFDA	72		25 - 150	10/19/21 14:01	10/21/21 02:53	1
13C2 PFUnA	75		25 - 150	10/19/21 14:01	10/21/21 02:53	1
13C2 PFDoA	79		25 - 150	10/19/21 14:01	10/21/21 02:53	1
13C2 PFTeDA	80		25 - 150	10/19/21 14:01	10/21/21 02:53	1
13C2 PFHxDA	71		25 - 150	10/19/21 14:01	10/21/21 02:53	1
13C3 PFBS	69		25 - 150	10/19/21 14:01	10/21/21 02:53	1
18O2 PFHxS	80		25 - 150	10/19/21 14:01	10/21/21 02:53	1
13C4 PFOS	75		25 - 150	10/19/21 14:01	10/21/21 02:53	1
13C8 FOSA	72		10 - 150	10/19/21 14:01	10/21/21 02:53	1
d3-NMeFOSAA	67		25 - 150	10/19/21 14:01	10/21/21 02:53	1
d5-NEtFOSAA	70		25 - 150	10/19/21 14:01	10/21/21 02:53	1
d-N-MeFOSA-M	56		10 - 150	10/19/21 14:01	10/21/21 02:53	1
d-N-EtFOSA-M	54		10 - 150	10/19/21 14:01	10/21/21 02:53	1
d7-N-MeFOSE-M	58		10 - 150	10/19/21 14:01	10/21/21 02:53	1
d9-N-EtFOSE-M	58		10 - 150	10/19/21 14:01	10/21/21 02:53	1
M2-4:2 FTS	74		25 - 150	10/19/21 14:01	10/21/21 02:53	1
M2-6:2 FTS	84		25 - 150	10/19/21 14:01	10/21/21 02:53	1
M2-8:2 FTS	80		25 - 150	10/19/21 14:01	10/21/21 02:53	1
13C3 HFPO-DA	64		25 - 150	10/19/21 14:01	10/21/21 02:53	1
13C2 10:2 FTS	87		25 - 150	10/19/21 14:01	10/21/21 02:53	1

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: FB

Lab Sample ID: 320-80410-3

Date Collected: 10/14/21 14:50

Matrix: Water

Date Received: 10/15/21 09:30

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.9	0.45	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.9	0.82	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.9	0.87	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/19/21 14:01	10/21/21 03:03	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/19/21 14:01	10/21/21 03:03	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/19/21 14:01	10/21/21 03:03	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/19/21 14:01	10/21/21 03:03	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		10/19/21 14:01	10/21/21 03:03	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		10/19/21 14:01	10/21/21 03:03	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/19/21 14:01	10/21/21 03:03	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/19/21 14:01	10/21/21 03:03	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/19/21 14:01	10/21/21 03:03	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/19/21 14:01	10/21/21 03:03	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/19/21 14:01	10/21/21 03:03	1
10:2 FTS	<0.62		1.9	0.62	ng/L		10/19/21 14:01	10/21/21 03:03	1
DONA	<0.37		1.9	0.37	ng/L		10/19/21 14:01	10/21/21 03:03	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/19/21 14:01	10/21/21 03:03	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/19/21 14:01	10/21/21 03:03	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/19/21 14:01	10/21/21 03:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	87		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C5 PFPeA	77		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C2 PFHxA	79		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C4 PFHpA	83		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C4 PFOA	90		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C5 PFNA	87		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C2 PFDA	87		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C2 PFUnA	80		25 - 150	10/19/21 14:01	10/21/21 03:03	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: SET Engineering LLC
 Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: FB

Lab Sample ID: 320-80410-3

Date Collected: 10/14/21 14:50

Matrix: Water

Date Received: 10/15/21 09:30

Method: 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	91		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C2 PFTeDA	94		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C2 PFHxDA	83		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C3 PFBS	81		25 - 150	10/19/21 14:01	10/21/21 03:03	1
18O2 PFHxS	96		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C4 PFOS	84		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C8 FOSA	81		10 - 150	10/19/21 14:01	10/21/21 03:03	1
d3-NMeFOSAA	86		25 - 150	10/19/21 14:01	10/21/21 03:03	1
d5-NEtFOSAA	87		25 - 150	10/19/21 14:01	10/21/21 03:03	1
d-N-MeFOSA-M	61		10 - 150	10/19/21 14:01	10/21/21 03:03	1
d-N-EtFOSA-M	61		10 - 150	10/19/21 14:01	10/21/21 03:03	1
d7-N-MeFOSE-M	69		10 - 150	10/19/21 14:01	10/21/21 03:03	1
d9-N-EtFOSE-M	69		10 - 150	10/19/21 14:01	10/21/21 03:03	1
M2-4:2 FTS	83		25 - 150	10/19/21 14:01	10/21/21 03:03	1
M2-6:2 FTS	101		25 - 150	10/19/21 14:01	10/21/21 03:03	1
M2-8:2 FTS	91		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C3 HFPO-DA	73		25 - 150	10/19/21 14:01	10/21/21 03:03	1
13C2 10:2 FTS	95		25 - 150	10/19/21 14:01	10/21/21 03:03	1

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: EB
Date Collected: 10/14/21 15:00
Date Received: 10/15/21 09:30

Lab Sample ID: 320-80410-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.9	0.87	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/19/21 14:01	10/21/21 03:13	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/19/21 14:01	10/21/21 03:13	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/19/21 14:01	10/21/21 03:13	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/19/21 14:01	10/21/21 03:13	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		10/19/21 14:01	10/21/21 03:13	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		10/19/21 14:01	10/21/21 03:13	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/19/21 14:01	10/21/21 03:13	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/19/21 14:01	10/21/21 03:13	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/19/21 14:01	10/21/21 03:13	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/19/21 14:01	10/21/21 03:13	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/19/21 14:01	10/21/21 03:13	1
10:2 FTS	<0.62		1.9	0.62	ng/L		10/19/21 14:01	10/21/21 03:13	1
DONA	<0.37		1.9	0.37	ng/L		10/19/21 14:01	10/21/21 03:13	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/19/21 14:01	10/21/21 03:13	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/19/21 14:01	10/21/21 03:13	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/19/21 14:01	10/21/21 03:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	69		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C5 PFPeA	68		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C2 PFHxA	68		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C4 PFHpA	70		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C4 PFOA	76		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C5 PFNA	76		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C2 PFDA	72		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C2 PFUnA	71		25 - 150	10/19/21 14:01	10/21/21 03:13	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: EB

Lab Sample ID: 320-80410-4

Date Collected: 10/14/21 15:00

Matrix: Water

Date Received: 10/15/21 09:30

Method: 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	10/19/21 14:01	10/21/21 03:13	1
13C2 PFTeDA	78		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C2 PFHxDA	70		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C3 PFBS	69		25 - 150	10/19/21 14:01	10/21/21 03:13	1
18O2 PFHxS	83		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C4 PFOS	78		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C8 FOSA	72		10 - 150	10/19/21 14:01	10/21/21 03:13	1
d3-NMeFOSAA	70		25 - 150	10/19/21 14:01	10/21/21 03:13	1
d5-NEtFOSAA	75		25 - 150	10/19/21 14:01	10/21/21 03:13	1
d-N-MeFOSA-M	56		10 - 150	10/19/21 14:01	10/21/21 03:13	1
d-N-EtFOSA-M	57		10 - 150	10/19/21 14:01	10/21/21 03:13	1
d7-N-MeFOSE-M	60		10 - 150	10/19/21 14:01	10/21/21 03:13	1
d9-N-EtFOSE-M	58		10 - 150	10/19/21 14:01	10/21/21 03:13	1
M2-4:2 FTS	69		25 - 150	10/19/21 14:01	10/21/21 03:13	1
M2-6:2 FTS	83		25 - 150	10/19/21 14:01	10/21/21 03:13	1
M2-8:2 FTS	77		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C3 HFPO-DA	67		25 - 150	10/19/21 14:01	10/21/21 03:13	1
13C2 10:2 FTS	88		25 - 150	10/19/21 14:01	10/21/21 03:13	1

Isotope Dilution Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

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)
320-80410-1	MW-2	64	64	60	69	70	68	59	54
320-80410-2	MW-3	73	70	68	71	79	74	72	75
320-80410-3	FB	87	77	79	83	90	87	87	80
320-80410-4	EB	69	68	68	70	76	76	72	71
LCS 320-535416/2-A	Lab Control Sample	83	77	72	80	87	80	79	78
MB 320-535416/1-A	Method Blank	84	75	74	79	86	78	80	80

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
320-80410-1	MW-2	56	55	58	66	76	66	62	53
320-80410-2	MW-3	79	80	71	69	80	75	72	67
320-80410-3	FB	91	94	83	81	96	84	81	86
320-80410-4	EB	78	78	70	69	83	78	72	70
LCS 320-535416/2-A	Lab Control Sample	82	86	76	74	82	75	70	83
MB 320-535416/1-A	Method Blank	82	86	78	78	83	78	74	82

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
320-80410-1	MW-2	53	43	38	39	38	62	77	61
320-80410-2	MW-3	70	56	54	58	58	74	84	80
320-80410-3	FB	87	61	61	69	69	83	101	91
320-80410-4	EB	75	56	57	60	58	69	83	77
LCS 320-535416/2-A	Lab Control Sample	78	56	56	65	63	83	93	85
MB 320-535416/1-A	Method Blank	80	55	57	63	64	88	96	95

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
320-80410-1	MW-2	58	60
320-80410-2	MW-3	64	87
320-80410-3	FB	73	95
320-80410-4	EB	67	88
LCS 320-535416/2-A	Lab Control Sample	70	93
MB 320-535416/1-A	Method Blank	68	97

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
- PFHxDA = 13C2 PFHxDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS

Isotope Dilution Summary

Job ID: 320-80410-1

Client: SET Engineering LLC

Project/Site: Schaefer Brush

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

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QC Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-535416/1-A
Matrix: Water
Analysis Batch: 535879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 535416

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/19/21 14:01	10/21/21 00:10	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/19/21 14:01	10/21/21 00:10	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/19/21 14:01	10/21/21 00:10	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/21 14:01	10/21/21 00:10	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/21 14:01	10/21/21 00:10	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/21 14:01	10/21/21 00:10	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/21 14:01	10/21/21 00:10	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/19/21 14:01	10/21/21 00:10	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/19/21 14:01	10/21/21 00:10	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/19/21 14:01	10/21/21 00:10	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/19/21 14:01	10/21/21 00:10	1
10:2 FTS	<0.67		2.0	0.67	ng/L		10/19/21 14:01	10/21/21 00:10	1
DONA	<0.40		2.0	0.40	ng/L		10/19/21 14:01	10/21/21 00:10	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/21 14:01	10/21/21 00:10	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/19/21 14:01	10/21/21 00:10	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/19/21 14:01	10/21/21 00:10	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	84		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C5 PFPeA	75		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C2 PFHxA	74		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C4 PFHpA	79		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C4 PFOA	86		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C5 PFNA	78		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C2 PFDA	80		25 - 150	10/19/21 14:01	10/21/21 00:10	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

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

Lab Sample ID: MB 320-535416/1-A
Matrix: Water
Analysis Batch: 535879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 535416

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFUnA	80		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C2 PFDoA	82		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C2 PFTeDA	86		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C2 PFHxDA	78		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C3 PFBS	78		25 - 150	10/19/21 14:01	10/21/21 00:10	1
18O2 PFHxS	83		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C4 PFOS	78		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C8 FOSA	74		10 - 150	10/19/21 14:01	10/21/21 00:10	1
d3-NMeFOSAA	82		25 - 150	10/19/21 14:01	10/21/21 00:10	1
d5-NEtFOSAA	80		25 - 150	10/19/21 14:01	10/21/21 00:10	1
d-N-MeFOSA-M	55		10 - 150	10/19/21 14:01	10/21/21 00:10	1
d-N-EtFOSA-M	57		10 - 150	10/19/21 14:01	10/21/21 00:10	1
d7-N-MeFOSE-M	63		10 - 150	10/19/21 14:01	10/21/21 00:10	1
d9-N-EtFOSE-M	64		10 - 150	10/19/21 14:01	10/21/21 00:10	1
M2-4:2 FTS	88		25 - 150	10/19/21 14:01	10/21/21 00:10	1
M2-6:2 FTS	96		25 - 150	10/19/21 14:01	10/21/21 00:10	1
M2-8:2 FTS	95		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C3 HFPO-DA	68		25 - 150	10/19/21 14:01	10/21/21 00:10	1
13C2 10:2 FTS	97		25 - 150	10/19/21 14:01	10/21/21 00:10	1

Lab Sample ID: LCS 320-535416/2-A
Matrix: Water
Analysis Batch: 535879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 535416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Perfluoropentanoic acid (PFPeA)	40.0	35.1		ng/L		88	60 - 135	
Perfluorohexanoic acid (PFHxA)	40.0	40.1		ng/L		100	60 - 135	
Perfluoroheptanoic acid (PFHpA)	40.0	36.2		ng/L		90	60 - 135	
Perfluorooctanoic acid (PFOA)	40.0	36.8		ng/L		92	60 - 135	
Perfluorononanoic acid (PFNA)	40.0	39.7		ng/L		99	60 - 135	
Perfluorodecanoic acid (PFDA)	40.0	38.9		ng/L		97	60 - 135	
Perfluoroundecanoic acid (PFUnA)	40.0	38.6		ng/L		97	60 - 135	
Perfluorododecanoic acid (PFDoA)	40.0	40.7		ng/L		102	60 - 135	
Perfluorotridecanoic acid (PFTriA)	40.0	41.0		ng/L		102	60 - 135	
Perfluorotetradecanoic acid (PFTeA)	40.0	37.7		ng/L		94	60 - 135	
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	37.7		ng/L		94	60 - 135	
Perfluoro-n-octadecanoic acid (PFODA)	40.0	34.7		ng/L		87	60 - 135	
Perfluorobutanesulfonic acid (PFBS)	35.4	32.5		ng/L		92	60 - 135	
Perfluoropentanesulfonic acid (PFPeS)	37.5	38.9		ng/L		104	60 - 135	
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.0		ng/L		99	60 - 135	

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

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

Lab Sample ID: LCS 320-535416/2-A
Matrix: Water
Analysis Batch: 535879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 535416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.9		ng/L		107	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	37.1		ng/L		100	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	40.0		ng/L		104	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	37.5		ng/L		97	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	40.2		ng/L		104	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	40.5		ng/L		101	60 - 135
NEtFOSA	40.0	39.9		ng/L		100	60 - 135
NMeFOSA	40.0	39.5		ng/L		99	60 - 135
NMeFOSAA	40.0	34.1		ng/L		85	60 - 135
NEtFOSAA	40.0	37.8		ng/L		95	60 - 135
NMeFOSE	40.0	39.5		ng/L		99	60 - 135
NEtFOSE	40.0	41.2		ng/L		103	60 - 135
4:2 FTS	37.4	36.4		ng/L		97	60 - 135
6:2 FTS	37.9	35.3		ng/L		93	60 - 135
8:2 FTS	38.3	37.6		ng/L		98	60 - 135
10:2 FTS	38.6	37.5		ng/L		97	60 - 135
DONA	37.7	39.4		ng/L		104	60 - 135
HFPO-DA (GenX)	40.0	38.7		ng/L		97	60 - 135
F-53B Major	37.3	37.6		ng/L		101	60 - 135
F-53B Minor	37.7	41.7		ng/L		111	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	83		25 - 150
13C5 PFPeA	77		25 - 150
13C2 PFHxA	72		25 - 150
13C4 PFHpA	80		25 - 150
13C4 PFOA	87		25 - 150
13C5 PFNA	80		25 - 150
13C2 PFDA	79		25 - 150
13C2 PFUnA	78		25 - 150
13C2 PFDoA	82		25 - 150
13C2 PFTeDA	86		25 - 150
13C2 PFHxDA	76		25 - 150
13C3 PFBS	74		25 - 150
18O2 PFHxS	82		25 - 150
13C4 PFOS	75		25 - 150
13C8 FOSA	70		10 - 150
d3-NMeFOSAA	83		25 - 150
d5-NEtFOSAA	78		25 - 150
d-N-MeFOSA-M	56		10 - 150
d-N-EtFOSA-M	56		10 - 150
d7-N-MeFOSE-M	65		10 - 150
d9-N-EtFOSE-M	63		10 - 150
M2-4:2 FTS	83		25 - 150

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

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

Lab Sample ID: LCS 320-535416/2-A

Matrix: Water

Analysis Batch: 535879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 535416

<i>Isotope Dilution</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>M2-6:2 FTS</i>	93		25 - 150
<i>M2-8:2 FTS</i>	85		25 - 150
<i>13C3 HFPO-DA</i>	70		25 - 150
<i>13C2 10:2 FTS</i>	93		25 - 150

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QC Association Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

LCMS

Prep Batch: 535416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80410-1	MW-2	Total/NA	Water	3535	
320-80410-2	MW-3	Total/NA	Water	3535	
320-80410-3	FB	Total/NA	Water	3535	
320-80410-4	EB	Total/NA	Water	3535	
MB 320-535416/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-535416/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 535879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80410-1	MW-2	Total/NA	Water	537 (modified)	535416
320-80410-2	MW-3	Total/NA	Water	537 (modified)	535416
320-80410-3	FB	Total/NA	Water	537 (modified)	535416
320-80410-4	EB	Total/NA	Water	537 (modified)	535416
MB 320-535416/1-A	Method Blank	Total/NA	Water	537 (modified)	535416
LCS 320-535416/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	535416

Lab Chronicle

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Client Sample ID: MW-2

Date Collected: 10/14/21 15:20

Date Received: 10/15/21 09:30

Lab Sample ID: 320-80410-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			266.9 mL	10.0 mL	535416	10/19/21 14:01	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			535879	10/21/21 02:43	AP	TAL SAC

Client Sample ID: MW-3

Date Collected: 10/14/21 15:40

Date Received: 10/15/21 09:30

Lab Sample ID: 320-80410-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			257.3 mL	10.0 mL	535416	10/19/21 14:01	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			535879	10/21/21 02:53	AP	TAL SAC

Client Sample ID: FB

Date Collected: 10/14/21 14:50

Date Received: 10/15/21 09:30

Lab Sample ID: 320-80410-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			269.9 mL	10.0 mL	535416	10/19/21 14:01	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			535879	10/21/21 03:03	AP	TAL SAC

Client Sample ID: EB

Date Collected: 10/14/21 15:00

Date Received: 10/15/21 09:30

Lab Sample ID: 320-80410-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			269.1 mL	10.0 mL	535416	10/19/21 14:01	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			535879	10/21/21 03:13	AP	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-22
Arkansas DEQ	State	88-0691	06-17-21 *
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-22
Florida	NELAP	E87570	06-30-22
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-18-22
Kansas	NELAP	E-10375	10-31-21
Louisiana	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22
Nevada	State	CA00044	08-31-22
New Hampshire	NELAP	2997	04-18-22
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-29-22
Texas	NELAP	T104704399-19-13	05-31-22
US Fish & Wildlife	US Federal Programs	58448	07-31-22
Utah	NELAP	CA000442021-12	03-01-22
Virginia	NELAP	460278	03-14-22
Washington	State	C581	05-05-22
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-22
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

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

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



Sample Summary

Client: SET Engineering LLC
Project/Site: Schaefer Brush

Job ID: 320-80410-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-80410-1	MW-2	Water	10/14/21 15:20	10/15/21 09:30
320-80410-2	MW-3	Water	10/14/21 15:40	10/15/21 09:30
320-80410-3	FB	Water	10/14/21 14:50	10/15/21 09:30
320-80410-4	EB	Water	10/14/21 15:00	10/15/21 09:30

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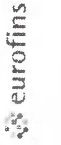
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Chain of Custody Record



Environment Testing
 America

Client Information Client Contact: Toni Schoen Company: SET Engineering LLC Address: 735 N Water Street, Suite 510 City: Milwaukee State, Zip: WI, 53202 Phone: Email: tschoen@setenv.com Project Name: Schafefer Brush Site:		Lab PM: Fredrick, Sandie E-Mail: sandria.fredrick@eurofins.com		Carrier Tracking No(s): State of Origin: WI		COC No: 500-92276-41123.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Standard Compliance Project: Yes No PO #: Purchase Order Requested WO #:		PWSID:		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification MW-2 MW-3 EB EB		Sample Date 10/14 10/14 10/14 10/14		Sample Time 1520 1548 1450 1500		Sample Type (C=comp, G=grab) G G G G	
Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air) Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) X X X X		Perform MS/MSD (Yes or No) N X X X		Total Number of Containers X	
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)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		320-80410 Chain of Custody 	
Empty Kit Relinquished by:		Date:		Method of Shipment:		Special Instructions/QC Requirements:	
Relinquished by:		Date/Time: 10/14/21		Received by:		Date/Time: 10/14/21	
Relinquished by:		Date/Time: 1700		Received by:		Date/Time: 930	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: Yes No		Custody Seal No.: 1601138		Cooler Temperature(s) °C and Other Remarks: 30C		Company: SET Company: TA Company:	

Login Sample Receipt Checklist

Client: SET Engineering LLC

Job Number: 320-80410-1

Login Number: 80410

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Oropeza, Salvador

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1601138
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	
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	