

Appendix E.3  
**FieldTurf Testing Report**

# DAVID TETER CONSULTING

November 22, 2022

Mr. Mike Harden  
Environmental Science Associates  
2121 Alton Parkway, Suite 100  
Irvine, California 92606

## **RE: Testing of FieldTurf Cryogenic Crumb Rubber for Total CAM 17 Metals and FieldTurf Core Vertex 2.5 Fiber for Total PFAS Using the Total Oxidizable Precursor Assay**

Dear Mr. Harden:

David Teter Consulting (Consultant) has prepared this letter report to present the testing results of FieldTurf cryogenic crumb rubber for total California Assessment Manual (CAM 17) metals and FieldTurf Core Vertex 2.5 fiber product for total per- and polyfluoroalkyl substances (PFAS) using the Total Oxidizable Precursor (TOP) assay.

### **EXECUTIVE SUMMARY**

1. None of the metals detected in the crumb rubber sample exceeded US EPA Regional Screening Levels (RSLs) or California Department of Toxic Substances Control (DTSC) modified RSLs for unrestricted residential use. The detected concentration of zinc in the crumb rubber is 14,000 milligrams per kilogram (mg/kg), which exceeds the California Total Threshold Limit Concentration (TTLC) for characterization as a California (non-RCRA) hazardous waste. This is an expected result as the concentration of zinc in crumb rubber typically ranges from 7,000 to 20,000 mg/kg. and does not affect any human health exposure aspects<sup>1</sup>.
2. The FieldTurf Core Vertex 2.5 fiber product was analyzed for an extended list of 68 PFAS of concern using EPA Method 537 Modified (537M), which is currently considered the most comprehensive testing approach for targeted compounds. No listed molecular PFAS of concern were detected above the laboratory reporting limit in the pre-weathered sample.
3. The FieldTurf Core Vertex 2.5 fiber product was subjected to the TOP assay which uses both heat and an aggressive hydroxyl radical oxidation process to attempt to break down precursor compounds of PFAS into measurable perfluoroalkyl acids (PFAA). Perfluorobutanoic acid (PFBA) and Perfluoro-2-methoxypropionic acid (MTP) were detected in the post-TOP assay sample at concentrations just above their respective laboratory reporting limits.

### **SAMPLING AND ANALYSIS**

The Consultant contacted FieldTurf and requested that all samples be collected as follows:

1. Whoever prepares the sample(s) for shipping shall be wearing nitrile gloves when handling the sample. It is preferred that the sample handler have not consumed fast food, pizza, or microwaved popcorn within the last 24 hours. The sample handler shall not be wearing any rain resistant material. Ideally, the sample handler should not breathe on the sample.

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<sup>1</sup> The US EPA Regional Screening Level for zinc in an unrestricted use scenario is 23,500 mg/kg (noncarcinogenic child) or 235,000 mg/kg (noncarcinogenic adult), assuming a hazard index (HI) of 1.

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2. Each sample is placed within a LDPE bag prior to placing the sample into the shipping box. Do not allow the sample to be in direct contact with the shipping box. Each sample shall be shipped in a separate box.
3. The bagged sample shall not be written on with a Sharpie or other permanent marker.

The above measures are necessary given the prevalence of PFAS contained in fast food packaging as well as materials with water resistant or waterproof coatings which could lead to cross contamination of the sample.

The following samples were shipped under chain-of-custody procedure to Eurofins/TestAmerica (Laboratory) of West Sacramento, California:

- FieldTurf Cryogenic Crumb Rubber; and
- FieldTurf Core Green fiber product.

The samples were received by the Laboratory in good condition. The FieldTurf cryogenic crumb rubber was analyzed by the Laboratory for CAM 17 metals using EPA Methods 6020A/7471B. The FieldTurf Core Vertex 2.5 fiber product was analyzed by Laboratory using the TOP assay which uses an aggressive heat and hydroxyl radical oxidation process to break down precursor compounds into measurable PFAAs and EPA Method 537M to analyze for an extended list of 68 molecular PFAS of concern in both the pre- and post-weathered samples.

## RESULTS

### Cryogenic Crumb Rubber

None of the detected metals exceeded US EPA RSLs or DTSC-modified RSLs for unrestricted residential use. The concentration of zinc in the crumb rubber is 14,000 mg/kg, which exceeds the California Total Threshold Limit Concentration (TTL) for characterization as a California (non-RCRA) hazardous waste. This is an expected result as the concentration of zinc in crumb rubber typically ranges from 7,000 to 20,000 mg/kg. and does not affect any human health exposure aspects. The US EPA Regional Screening Level for zinc in an unrestricted use scenario is 23,500 mg/kg (noncarcinogenic child) or 235,000 mg/kg (noncarcinogenic adult), assuming a hazard index (HI) of 1. The matrix spike (MS) and/or matrix spike duplicate (MSD) quality control levels were exceeded for the antimony, copper, and lead. These analytical issues do not affect the validity of the results.

### Core Vertex 2.5 Fiber

#### TOP Assay

A sample of the pre-TOP assay FieldTurf Core Vertex 2.5 fiber product was analyzed for an extended list of 68 molecular PFAS of concern using EPA Method 537M. No PFAS were detected above the laboratory reporting limits in the pre-TOP assay FieldTurf Core Vertex 2.5 fiber product. Perfluorobutanoic acid (PFBA) and Perfluoro-2-methoxypropionic acid (MTP) were detected in the post-TOP assay sample at concentrations of 1.7 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ) and 5.9  $\mu\text{g}/\text{kg}$ , respectively. The detected concentrations are only slightly above their respective laboratory reporting limits. PFBA was also detected in the method blank and the laboratory control spike (LCS) and/or laboratory control spike duplicate (LCSD) are outside of the quality control limits and biased-high. The LCS and/or LCSD for MTP are outside of the quality control limits and biased-high. These analytical issues are unlikely to affect the validity of the results, although they likely resulted in overestimated post-TOP assay concentrations of PFBA and MTP.

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## CLOSING

I appreciate the opportunity to work with you on this project. Should you have any questions or require additional information, please do not hesitate to contact me at (415) 889-8875 or at david@davidteterconsulting.com.

Sincerely,

A handwritten signature in black ink, appearing to read "David M. Teter". The signature is fluid and cursive, with the first name "David" being the most prominent.

David Teter, PhD, PE  
Principal Engineer

## Enclosures

Table 1 – Total FieldTurf Crumb Rubber Metals Testing Results

Table 2 – FieldTurf Core Vertex 2.5 Fiber PFAS Testing Results for Pre- and Post TOP Assay

Attachment A – Laboratory Report

TABLE 1 - Total Metals Results for FieldTurf Cryogenic Crumb Rubber

Metal	Guideline Values (mg/kg)	Basis	Cryogenic Crumb (mg/kg)	Result
Antimony	31	US EPA RSL	<b>0.48 F1</b>	PASS
Arsenic	11	SF Bay Area Background	<b>0.43</b>	PASS
Barium	1,000	10 x STLC	<b>4.2</b>	PASS
Beryllium	7.5	DTSC-modified RSL	< 0.10	PASS
Cadmium	5.2	DTSC-modified RSL	<b>0.65</b>	PASS
Chromium (Total)	50	10 x STLC	<b>1.5</b>	PASS
Cobalt	420	US EPA RSL (Cancer)	<b>130</b>	PASS
Copper	250	10 x STLC	<b>46 F1</b>	PASS
Lead	50	10 x STLC	<b>15 F1</b>	PASS
Mercury	1.0	DTSC-modified RSL	< 0.040	PASS
Molybdenum	390	US EPA RSL	<b>0.21</b>	PASS
Nickel	200	10 x STLC	<b>2.7</b>	PASS
Selenium	10	10 x STLC	< 0.20	PASS
Silver	50	10 x STLC	< 0.10	PASS
Thallium	0.78	US EPA RSL	< 0.50	PASS
Vanadium	240	10 x STLC	< 1.0	PASS
Zinc	5,000	TTLc	<b>14,000</b>	DOES NOT PASS

**Notes and Abbreviations**

DTSC: California Department of Toxic Substances Control

F1: Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) exceeds control limits.

mg/kg: Milligram per kilogram

US EPA: United States Environmental Protection Agency

RSL: Regional Screening Limit

STLC: Soluble Threshold Limit Concentration

TTLc: Total Threshold Limit Concentration

TABLE 2 - Total PFAS Results for the Pre- and Post-treated TOP Assay. All results are in ug/kg (ppb).

PFAS TYPE	ANALYTE	CAS Number	CORE VERTEX 2.5	
			PRE	POST
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluorobutanoic acid (PFBA)	375-22-4	< 1.0	1.7 B *+
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluoropentanoic acid (PFPeA)	2706-90-3	< 1.0	< 1.0 *+
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluorohexanoic acid (PFHxA)	307-24-4	< 1.0	< 1.0 I*+
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluoroheptanoic acid (PFHpA)	375-85-9	< 1.0	< 1.0 *+
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluorooctanoic acid (PFOA)	335-67-1	< 1.0	< 1.0
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluorononanoic acid (PFNA)	375-95-1	< 1.0	< 1.0 *-
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluorodecanoic acid (PFDA)	335-76-2	< 1.0	< 1.0
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluoroundecanoic acid (PFUnA)	2058-94-8	< 1.0	< 1.0
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluorododecanoic acid (PFDoA)	307-55-1	< 1.0	< 1.0
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluorotridecanoic acid (PFTrDA)	72629-94-8	< 1.0	< 1.0
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluorotetradecanoic acid (PFTeA)	376-06-7	< 1.0	< 1.0
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	< 1.0	< 1.0
Perfluoroalkylcarboxylic acids (PFCAs)	Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	Perfluorobutanesulfonic acid (PFBS)	375-73-5	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	Perfluorononanesulfonic acid (PFNS)	68259-12-1	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	Perfluorodecanesulfonic acid (PFDS)	335-77-3	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	< 1.0	< 1.0
Perfluorinated sulfonic acids (PFSAs)	11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	< 1.0	< 1.0
Perfluorinated sulfonamides (FOSA)	Perfluorooctanesulfonamide (FOSA)	754-91-6	< 1.0	< 1.0
Perfluorinated sulfonamidoacetic acids (FOSAA)	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	< 1.0	< 1.0
Perfluorinated sulfonamidoacetic acids (FOSAA)	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	< 1.0	< 1.0
Fluorotelomer sulfonates (FTS)	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	< 1.0	< 1.0
Fluorotelomer sulfonates (FTS)	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	< 1.0	< 1.0
Fluorotelomer sulfonates (FTS)	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	< 1.0	< 1.0
Fluorotelomer sulfonates (FTS)	1H, 1H, 2H, 2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	< 1.0	< 1.0
Perfluoroalkane sulfonamides (FASA)	N-Ethyl perfluorooctanesulfonamide (NEtFOSA)	4151-50-2	< 1.0	< 1.0
Perfluoroalkane sulfonamides (FASA)	N-methyl perfluorooctanesulfonamide (NMeFOSA)	31506-32-8	< 1.0	< 1.0
Perfluoroalkane sulfonamido ethanols (FASE)	N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	< 1.0	< 1.0
Perfluoroalkane sulfonamido ethanols (FASE)	N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	1691-99-2	< 1.0	< 1.0
Perfluoroether carboxylic acids (PFECA)	Hexafluoropropylene oxide dimer acid (HFPO-DA) (GenX)	13252-13-6	< 1.0	< 1.0
Perfluoroether carboxylic acids (PFECA)	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	< 1.0	< 1.0
Fluorotelomer carboxylic acids (FTCA)	2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	356-02-5	< 1.0	< 1.0
Fluorotelomer carboxylic acids (FTCA)	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	914637-49-3	< 1.0	< 1.0
Fluorotelomer carboxylic acids (FTCA)	2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	812-70-4	< 1.0	< 1.0
Fluorotelomer carboxylic acids (FTCA)	2H,2H-Perfluorooctanoic acid (6:2 FTCA)	53826-12-3	< 1.0	< 1.0
Fluorotelomer carboxylic acids (FTCA)	2H,2H-Perfluorodecanoic acid (8:2 FTCA)	27854-31-5	< 1.0	< 1.0
Fluorotelomer carboxylic acids (FTCA)	2H,2H-Perfluorododecanoic acid (10:2 FTCA)	53826-13-4	< 1.0	< 1.0
Fluorotelomer unsaturated carboxylic acids (FTUCA)	6:2 FTUCA	70887-88-6	< 1.5	< 1.5
Fluorotelomer unsaturated carboxylic acids (FTUCA)	8:2 FTUCA	70887-84-2	< 1.0	< 1.0
Fluorotelomer unsaturated carboxylic acids (FTUCA)	10:2 FTUCA	70887-94-4	< 1.0	< 1.0
PFAS (Other)	Perfluoroethylcyclohexane sulfonate (PFECHS)	133201-07-7	< 1.0	< 1.0
PFAS (Other)	Perfluoropropanesulfonic acid (PFPrS)	423-41-6	< 1.0	< 1.0
PFAS (Other)	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	< 1.0	< 1.0
PFAS (Other)	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	< 1.0	< 1.0
PFAS (Other)	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	< 1.0	< 1.0
PFAS (Other)	Perfluoro(2-ethoxyethane)sulphonic acid (PFEEESA)	113507-82-7	< 1.0	< 1.0
PFAS (Other)	Perfluoro-2-methoxyacetic acid (PFMOAA)	674-13-5	< 1.0	< 1.0
PFAS (Other)	4-(heptafluoroisopropoxy)hexafluorobutanoic acid (PFPE-1)	801212-89-9	< 1.0	< 1.0
PFAS (Other)	Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	39492-90-5	< 1.0	< 1.0
PFAS (Other)	Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	39492-89-2	< 1.0	< 1.0
PFAS (Other)	Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	39492-88-1	< 1.0	< 1.0
PFAS (Other)	Perfluoro(3,5,7,9,11-pentaaxadodecanoic) acid (PFO5DA)	39492-91-6	< 1.0	< 1.0
PFAS (Other)	Perfluoro-2-methoxypropanoic acid (PMPA)	13140-29-9	< 1.0	< 1.0
PFAS (Other)	Perfluoro-2-ethoxypropanoic acid (PEPA)	267239-61-2	< 1.0	< 1.0
PFAS (Other)	Perfluoro-2-methoxypropanoic acid (MTP)	93449-21-9	< 1.0	*- 5.9 *+
PFAS (Other)	Perfluoropropanoic acid (PFPrA)	422-64-0	< 1.0	*- < 1.0 B
PFAS (Other)	R-EVE	2416366-22-6	< 1.0	*+ < 1.0 *+
PFAS (Other)	1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS)	1132933-86-8	< 2.6	< 2.5
PFAS (Other)	Perfluoroethoxypropanoic acid (Hydro-EVE Acid)	773804-62-9	< 1.0	< 1.0
PFAS (Other)	Nafion Byproduct 2 (NBP2); Hydro-PS Acid	749836-20-2	< 1.0	< 1.0
PFAS (Other)	Nafion Byproduct 4 (NBP4); R-PSDA	2416366-21-5	< 1.0	*+ < 1.0 *+
PFAS (Other)	Nafion Byproduct 5 (NBP5); Hydrolyzed PSDA	2416366-19-1	< 1.0	< 1.0
PFAS (Other)	Nafion Byproduct 6 (NBP6); R-PSDCA	2416366-21-5	< 1.5	< 1.5

**LCMS Qualifiers**

\*- : Laboratory Control Spike (LCS) and/or Laboratory Control Spike Duplicate (LCS D) is outside acceptance limits, low biased.

\*+ : LCS and/or LCS D is outside acceptance limits, high biased.

I: Value is the Estimated Maximum Possible Concentration (EMPC)

B: Compound was found in the blank and sample.

F1: Matrix Spike (MS) and/or Matrix Spike Duplicate (MS D) recovery exceeds control limits.

H: Sample was prepped or analyzed beyond the specified holding time

**Abbreviations**

CAS : Chemical Abstracts Service

MDL: Method Detection Limit

MS : Matrix Spike

MSD : Matrix Spike Duplicate

ND: Not Detected at the Laboratory Reporting Limit

## ANALYTICAL REPORT

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

Laboratory Job ID: 320-90614-1  
Client Project/Site: PFAS, Product Testing

For:  
David Teter Consulting  
1169 Pacific Avenue  
San Francisco, California 94133

Attn: Dr. David Teter



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Authorized for release by:  
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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: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
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: David Teter Consulting  
Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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## Job ID: 320-90614-1

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### Laboratory: Eurofins Sacramento

#### Narrative

##### Receipt

The samples were received on 7/29/2022 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 21.1° C.

##### Receipt Exceptions

No actual label on sample#2 instead there were tags on the sample with FTVTC1 Field Turf, while COC lists as Core Vertex 2.5 C.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): Sample Core Vertex 2.5 (320-90614-2) lists as 3 count however only 2 turf samples were submitted to the lab.

##### Metals

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-618879 and analytical batch 320-619999 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-618879 and analytical batch 320-620221 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6020A: The following sample was diluted to bring the concentration of target analyte within the calibration range: Cryogenic Rubber 14-30 (320-90614-1). Elevated reporting limits (RLs) are provided.

Method 7471B: The sample was processed outside the method recommended holding time for water and soil samples. As this sample is a cryogenic rubber, the holding time may not be applicable. Cryogenic Rubber 14-30 (320-90614-1).

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

##### LCMS

Method 537 (modified): The continuing calibration verifications (CCVs) associated with batch 320-609328 recovered above the upper control limit for several analytes. The sample associated with these CCVs was non-detect for the affected analytes; therefore, the data have been reported.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: Core Vertex 2.5 (320-90614-2). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: (MB 320-608980/1-A). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): The laboratory control sample (LCS) for preparation batch 320-608972 and analytical batch 320-609328 recovered outside control limits for the following analytes: R-EVE and R-PSDA. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 537 (modified): The laboratory control sample (LCS) for preparation batch 320-608972 and analytical batch 320-609328 recovered low outside control limits for the following analytes: PPF Acid and MTP. Re-analysis confirms the low recoveries. The recovery is being compared to the laboratory default limits. As additional data points are analyzed, the control limits will be updated to reflect the method performance.

Method 537 (modified): The Isotope Dilution Analyte (IDA) M2-4:2FTS is reporting as outside of control limits in the following QC samples but the actual control limits are 25 to 150 for this IDA and therefore is in control. (CCB 320-617867/1) and (CCV 320-617867/3)

Method 537 (modified): The labeled analyte M2-4:2FTS is converted to PFBA during the oxidation step of the TOP assay. The PFBA result in the Post-Treatment Method Blank (MB) indicates how much of a field sample's Post-Treatment PFBA result is contributed by the

# Case Narrative

Client: David Teter Consulting  
Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Job ID: 320-90614-1 (Continued)

### Laboratory: Eurofins Sacramento (Continued)

Reverse Surrogate, when adjusted for dilution factors.

Method 537 (modified): The labeled analyte M2-4:2FTS is employed in this analysis as a "Reverse Surrogate". It is used to monitor the oxidation efficiency of the TOP assay. This analyte is fortified into all sample fractions prior to any processing. The recovery of this analyte should be 0% in Post-Treatment fractions, indicating complete oxidation of the sample. Core Vertex 2.5 (320-90614-2), (LCS 320-608980/2-A), (LCSD 320-608980/3-A) and (MB 320-608980/1-A)

Method 537 (modified): The continuing calibration verifications (CCVs) associated with batch 320-617867 recovered outside the control limits for R-EVE. This analyte is a poor performer, with control limits at +/- 50%. The CCVs are within the 50% limit, therefore the data is reported. (CCV 320-617867/9) and (CCV 320-617867/3).

Method 537 (modified): The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for preparation batch 320-608980 recovered low outside control limits for the following analytes: MTP. The recovery is being compared to the laboratory default limits. As additional data points are analyzed, the control limits will be updated to reflect the method performance. (LCS 320-608980/2-A) and (LCSD 320-608980/3-A)

Method 537 (modified): Zero percent recovery of precursor analytes (such as 4:2 FTS, 6:2 FTS, 8:2 FTS, FOSA, NMeFOSAA, NEtFOSAA, etc.) and enhanced recoveries of PFCA is observed in the Post-Treatment Laboratory Control Sample (LCS) and Post-Treatment Laboratory Control Sample Duplicate (LCSD) associated with these samples, consistent with the expected oxidation of precursor analytes. The existing LCS control limits are based upon our historical performance for a set of 24-36 analytes in the LCS solution. We have recently expanded to 70+ analytes. As the LCS solution now contains new/additional precursor analytes we are seeing enhanced recoveries for some PFCA vs. the historical limits as a result. The LCS results are flagged as being high and outside of the established limits for some analytes; however, this is a function of the new analytes in the LCS solution and not indicative of an "out of control" process. (LCS 320-608980/2-A) and (LCSD 320-608980/3-A)

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. Core Vertex 2.5 (320-90614-2)

Method 537 (modified): The following analyte recovered outside control limits for the laboratory control sample (LCS) associated with preparation batch 320-608980 and analytical batch 320-617867: Perfluorododecanesulfonic acid (PFDoS). This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 537 (modified): The continuing calibration verification (CCV) associated with batch 320-609326 recovered above the upper control limit for R-EVE and R-PSDA. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 537 (modified): The low level continuing calibration verification associated with analytical batch 320-609326 recovered below limits for TAF. The associated sample is bracketed by continuing calibration verifications which are in control for this analyte, therefore the data is reported. (CCVL 320-609326/2)

Method 537 (modified): The transition mass ratio was outside of the established ratio limit for 3:3 FTCA in (CCVL 320-609326/2) associated to this data set. This is indicated by the "R" flag in the raw data. As the flagged data is in control in the CCVL, there is no adverse impact to the data. (CCVL 320-609326/2)

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

### Organic Prep

Method SHAKE: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: Core Vertex 2.5 (320-90614-2). The reporting limits (RLs) have been adjusted proportionately. Preparation batch 320-608972

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

# Detection Summary

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Client Sample ID: Cryogenic Rubber 14-30

## Lab Sample ID: 320-90614-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	F1	0.20	0.10	mg/Kg	1		6020A	Total/NA
Arsenic	0.43		0.20	0.15	mg/Kg	1		6020A	Total/NA
Barium	4.2		0.20	0.14	mg/Kg	1		6020A	Total/NA
Cadmium	0.65		0.10	0.051	mg/Kg	1		6020A	Total/NA
Chromium	1.5		0.20	0.10	mg/Kg	1		6020A	Total/NA
Cobalt	130		0.10	0.061	mg/Kg	1		6020A	Total/NA
Copper	46	F1	0.20	0.10	mg/Kg	1		6020A	Total/NA
Lead	15	F1	0.10	0.061	mg/Kg	1		6020A	Total/NA
Molybdenum	0.21		0.20	0.020	mg/Kg	1		6020A	Total/NA
Nickel	2.7		0.20	0.10	mg/Kg	1		6020A	Total/NA
Selenium	0.12	J	0.20	0.10	mg/Kg	1		6020A	Total/NA
Vanadium	0.75	J	1.0	0.31	mg/Kg	1		6020A	Total/NA
Zinc	14000		26	15	mg/Kg	25		6020A	Total/NA

## Client Sample ID: Core Vertex 2.5

## Lab Sample ID: 320-90614-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PMPA	0.38	J	1.0	0.15	ug/Kg	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	1.7	B **	1.0	0.23	ug/Kg	1		537 (modified)	Post-Treatment
Perfluoropentanoic acid (PFPeA)	0.34	J **	1.0	0.21	ug/Kg	1		537 (modified)	Post-Treatment
Perfluorohexanoic acid (PFHxA)	0.87	J I **	1.0	0.16	ug/Kg	1		537 (modified)	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	0.50	J **	1.0	0.19	ug/Kg	1		537 (modified)	Post-Treatment
Perfluorooctanoic acid (PFOA)	0.35	J	1.0	0.27	ug/Kg	1		537 (modified)	Post-Treatment
Perfluorononanoic acid (PFNA)	0.17	J **	1.0	0.11	ug/Kg	1		537 (modified)	Post-Treatment
Perfluorotridecanoic acid (PFTrDA)	0.11	J	1.0	0.11	ug/Kg	1		537 (modified)	Post-Treatment
MTP	5.9	**	1.0	0.50	ug/Kg	1		537 (modified)	Post-Treatment
PFPrA	0.70	J B	1.0	0.15	ug/Kg	1		537 (modified)	Post-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Client Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

**Client Sample ID: Cryogenic Rubber 14-30**

**Lab Sample ID: 320-90614-1**

Date Collected: 07/28/22 14:00

Matrix: Solid

Date Received: 07/29/22 10:20

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	F1	0.20	0.10	mg/Kg		09/22/22 05:25	09/26/22 13:26	1
Arsenic	0.43		0.20	0.15	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Barium	4.2		0.20	0.14	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Beryllium	ND		0.10	0.010	mg/Kg		09/22/22 05:25	09/26/22 13:26	1
Cadmium	0.65		0.10	0.051	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Chromium	1.5		0.20	0.10	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Cobalt	130		0.10	0.061	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Copper	46	F1	0.20	0.10	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Lead	15	F1	0.10	0.061	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Molybdenum	0.21		0.20	0.020	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Nickel	2.7		0.20	0.10	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Selenium	0.12	J	0.20	0.10	mg/Kg		09/22/22 05:25	09/26/22 13:26	1
Silver	ND		0.10	0.031	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Thallium	ND		0.10	0.051	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Vanadium	0.75	J	1.0	0.31	mg/Kg		09/22/22 05:25	09/24/22 19:35	1
Zinc	14000		26	15	mg/Kg		09/22/22 05:25	09/26/22 19:15	25

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H	0.040	0.0080	mg/Kg		09/27/22 11:43	09/27/22 14:44	1

**Client Sample ID: Core Vertex 2.5**

**Lab Sample ID: 320-90614-2**

Date Collected: 07/28/22 14:00

Matrix: Solid

Date Received: 07/29/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.0	0.24	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluoropentanoic acid (PFPeA)	ND		1.0	0.21	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorohexanoic acid (PFHxA)	ND		1.0	0.16	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluoroheptanoic acid (PFHpA)	ND		1.0	0.20	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorooctanoic acid (PFOA)	ND		1.0	0.27	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorononanoic acid (PFNA)	ND		1.0	0.11	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorodecanoic acid (PFDA)	ND		1.0	0.25	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluoroundecanoic acid (PFUnA)	ND		1.0	0.22	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorododecanoic acid (PFDoA)	ND		1.0	0.15	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.0	0.11	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.0	0.19	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	ND		1.0	0.20	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluoro-n-octadecanoic acid (PFODA)	ND		1.0	0.34	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.0	0.20	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.0	0.19	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.0	0.15	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.0	0.25	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.0	0.22	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorononanesulfonic acid (PFNS)	ND		1.0	0.15	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.0	0.27	ug/Kg		08/11/22 19:01	08/14/22 13:05	1

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# Client Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

**Client Sample ID: Core Vertex 2.5**

**Lab Sample ID: 320-90614-2**

Date Collected: 07/28/22 14:00

Matrix: Solid

Date Received: 07/29/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		1.0	0.24	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Perfluorooctanesulfonamide (FOSA)	ND		1.0	0.17	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
NMeFOSAA	ND		1.0	0.12	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
NEtFOSAA	ND		1.0	0.25	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
4:2 FTS	ND		1.0	0.26	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
6:2 FTS	ND		1.0	0.14	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
8:2 FTS	ND		1.0	0.18	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
10:2 FTS	ND		1.0	0.20	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
NEtFOSA	ND		1.0	0.24	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
NMeFOSA	ND		1.0	0.25	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
NMeFOSE	ND		1.0	0.24	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
NEtFOSE	ND		1.0	0.14	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
HFPO-DA (GenX)	ND		1.0	0.21	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
9Cl-PF3ONS	ND		1.0	0.18	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
11Cl-PF3OUdS	ND		1.0	0.16	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.0	0.20	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
3:3 FTCA	ND		1.0	0.21	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
5:3 FTCA	ND		1.0	0.20	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
7:3 FTCA	ND		1.0	0.21	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
6:2 FTCA	ND		1.5	0.52	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
6:2 FTUCA	ND		1.0	0.37	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
8:2 FTCA	ND		1.0	0.21	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
8:2 FTUCA	ND		1.0	0.14	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
10:2 FTCA	ND		1.0	0.13	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
10:2 FTUCA	ND		1.0	0.25	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFECHS	ND		1.0	0.23	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFPrS	ND		1.0	0.15	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
NFDHA	ND		1.0	0.21	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFMBA	ND		1.0	0.23	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFMPA	ND		1.0	0.12	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFEESA	ND		1.0	0.16	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFMOAA	ND		1.0	0.11	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFPE-1	ND		1.0	0.18	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFO4DA	ND		1.0	0.24	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFO3OA	ND		1.0	0.21	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFO2HxA	ND		1.0	0.30	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFO5DA	ND		1.0	0.35	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
<b>PMPA</b>	<b>0.38</b>	<b>J</b>	1.0	0.15	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PEPA	ND		1.0	0.27	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
MTP	ND	*-	1.0	0.51	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
PFPrA	ND	*-	1.0	0.15	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
R-EVE	ND	*+	1.0	0.23	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
NVHOS	ND		2.6	0.70	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Hydro-EVE Acid	ND		1.0	0.15	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
R-PSDA	ND	*+	1.0	0.27	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Hydrolyzed PSDA	ND		1.0	0.35	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
R-PSDCA	ND		1.5	0.53	ug/Kg		08/11/22 19:01	08/14/22 13:05	1
Hydro-PS Acid	ND		1.0	0.25	ug/Kg		08/11/22 19:01	08/14/22 13:05	1

Eurofins Sacramento



# Client Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

**Client Sample ID: Core Vertex 2.5**

**Lab Sample ID: 320-90614-2**

**Date Collected: 07/28/22 14:00**

**Matrix: Solid**

**Date Received: 07/29/22 10:20**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 FOSA	88		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C4 PFBA	43		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C5 PFPeA	77		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C2 PFHxA	86		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C4 PFHpA	79		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C4 PFOA	92		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C5 PFNA	84		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C2 PFDA	85		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C2 PFUnA	100		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C2 PFDoA	87		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C2 PFTeDA	72		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C2 PFHxDA	73		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C3 PFBS	75		25 - 150	08/11/22 19:01	08/14/22 13:05	1
18O2 PFHxS	74		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C4 PFOS	70		25 - 150	08/11/22 19:01	08/14/22 13:05	1
d3-NMeFOSAA	132		25 - 150	08/11/22 19:01	08/14/22 13:05	1
d5-NEtFOSAA	149		25 - 150	08/11/22 19:01	08/14/22 13:05	1
M2-4:2 FTS	145		25 - 150	08/11/22 19:01	08/14/22 13:05	1
M2-6:2 FTS	160	*5+	25 - 150	08/11/22 19:01	08/14/22 13:05	1
M2-8:2 FTS	147		25 - 150	08/11/22 19:01	08/14/22 13:05	1
d-N-MeFOSA-M	69		25 - 150	08/11/22 19:01	08/14/22 13:05	1
d-N-EtFOSA-M	76		25 - 150	08/11/22 19:01	08/14/22 13:05	1
d7-N-MeFOSE-M	80		10 - 120	08/11/22 19:01	08/14/22 13:05	1
d9-N-EtFOSE-M	106		10 - 120	08/11/22 19:01	08/14/22 13:05	1
13C3 HFPO-DA	68		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C-6:2 FTCA	120		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C-8:2 FTCA	126		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C-10:2 FTCA	132		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C-6:2 FTUCA	102		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C-8:2 FTUCA	120		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C-10:2 FTUCA	111		25 - 150	08/11/22 19:01	08/14/22 13:05	1
13C2 10:2 FTS	133		25 - 150	08/11/22 19:01	08/14/22 13:05	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorobutanoic acid (PFBA)	1.7	B **	1.0	0.23	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluoropentanoic acid (PFPeA)	0.34	J **	1.0	0.21	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorohexanoic acid (PFHxA)	0.87	J I **	1.0	0.16	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluoroheptanoic acid (PFHpA)	0.50	J **	1.0	0.19	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorooctanoic acid (PFOA)	0.35	J	1.0	0.27	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorononanoic acid (PFNA)	0.17	J **	1.0	0.11	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorodecanoic acid (PFDA)	ND		1.0	0.24	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluoroundecanoic acid (PFUnA)	ND		1.0	0.21	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorododecanoic acid (PFDoA)	ND		1.0	0.15	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorotridecanoic acid (PFTTrDA)	0.11	J	1.0	0.11	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.0	0.19	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	ND		1.0	0.19	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluoro-n-octadecanoic acid (PFODA)	ND		1.0	0.33	ug/Kg		08/11/22 21:56	09/19/22 12:53	1

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# Client Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

**Client Sample ID: Core Vertex 2.5**

**Lab Sample ID: 320-90614-2**

**Date Collected: 07/28/22 14:00**

**Matrix: Solid**

**Date Received: 07/29/22 10:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		1.0	0.19	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.0	0.19	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.0	0.15	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.0	0.25	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.0	0.22	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorononanesulfonic acid (PFNS)	ND		1.0	0.15	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.0	0.26	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND	*	1.0	0.24	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Perfluorooctanesulfonamide (FOSA)	ND		1.0	0.17	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
NMeFOSAA	ND		1.0	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
NEtFOSAA	ND		1.0	0.24	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
4:2 FTS	ND		1.0	0.26	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
6:2 FTS	ND		1.0	0.14	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
8:2 FTS	ND		1.0	0.18	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
10:2 FTS	ND		1.0	0.19	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
NEtFOSA	ND		1.0	0.24	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
NMeFOSA	ND		1.0	0.25	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
NMeFOSE	ND		1.0	0.24	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
NEtFOSE	ND		1.0	0.14	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
HFPO-DA (GenX)	ND		1.0	0.21	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
9Cl-PF3ONS	ND		1.0	0.18	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
11Cl-PF3OUdS	ND		1.0	0.16	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.0	0.20	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
3:3 FTCA	ND		1.0	0.21	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
5:3 FTCA	ND		1.0	0.19	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
7:3 FTCA	ND		1.0	0.21	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
6:2 FTCA	ND		1.5	0.51	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
6:2 FTUCA	ND		1.0	0.36	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
8:2 FTCA	ND		1.0	0.20	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
8:2 FTUCA	ND		1.0	0.14	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
10:2 FTCA	ND		1.0	0.13	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
10:2 FTUCA	ND		1.0	0.25	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFECHS	ND		1.0	0.22	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFPrS	ND		1.0	0.15	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
NFDHA	ND		1.0	0.20	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFMBA	ND		1.0	0.23	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFMPA	ND	*+	1.0	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFEESA	ND		1.0	0.16	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFMOAA	ND		1.0	0.11	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFPE-1	ND		1.0	0.18	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFO4DA	ND		1.0	0.23	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFO3OA	ND		1.0	0.20	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFO2HxA	ND		1.0	0.29	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFO5DA	ND		1.0	0.34	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PMPA	ND		1.0	0.15	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PEPA	ND		1.0	0.26	ug/Kg		08/11/22 21:56	09/19/22 12:53	1

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# Client Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

**Client Sample ID: Core Vertex 2.5**

**Lab Sample ID: 320-90614-2**

Date Collected: 07/28/22 14:00

Matrix: Solid

Date Received: 07/29/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTP	5.9	*+	1.0	0.50	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
PFPra	0.70	J B	1.0	0.15	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
R-EVE	ND	*+	1.0	0.22	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
NVHOS	ND		2.5	0.68	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Hydro-EVE Acid	ND		1.0	0.15	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
R-PSDA	ND	*+	1.0	0.26	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Hydrolyzed PSDA	ND		1.0	0.34	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
R-PSDCA	ND		1.5	0.51	ug/Kg		08/11/22 21:56	09/19/22 12:53	1
Hydro-PS Acid	ND		1.0	0.24	ug/Kg		08/11/22 21:56	09/19/22 12:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	94		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C4 PFBA	106		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C5 PFPeA	111		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C2 PFHxA	130		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C4 PFHpA	110		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C4 PFOA	113		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C5 PFNA	121		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C2 PFDA	108		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C2 PFUnA	100		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C2 PFDoA	89		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C2 PFTeDA	97		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C2 PFHxDA	101		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C3 PFBS	106		25 - 150	08/11/22 21:56	09/19/22 12:53	1
18O2 PFHxS	112		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C4 PFOS	103		25 - 150	08/11/22 21:56	09/19/22 12:53	1
d3-NMeFOSAA	134		25 - 150	08/11/22 21:56	09/19/22 12:53	1
d5-NEtFOSAA	135		25 - 150	08/11/22 21:56	09/19/22 12:53	1
M2-4:2 FTS	0		0 - 10	08/11/22 21:56	09/19/22 12:53	1
M2-6:2 FTS	106		25 - 150	08/11/22 21:56	09/19/22 12:53	1
M2-8:2 FTS	120		25 - 150	08/11/22 21:56	09/19/22 12:53	1
d-N-MeFOSA-M	50		25 - 150	08/11/22 21:56	09/19/22 12:53	1
d-N-EtFOSA-M	43		25 - 150	08/11/22 21:56	09/19/22 12:53	1
d7-N-MeFOSE-M	48		25 - 150	08/11/22 21:56	09/19/22 12:53	1
d9-N-EtFOSE-M	42		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C3 HFPO-DA	107		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C-6:2 FTCA	100		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C-8:2 FTCA	102		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C-10:2 FTCA	104		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C-6:2 FTUCA	149		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C-8:2 FTUCA	144		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C-10:2 FTUCA	140		25 - 150	08/11/22 21:56	09/19/22 12:53	1
13C2 10:2 FTS	90		25 - 150	08/11/22 21:56	09/19/22 12:53	1

# Isotope Dilution Summary

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

Matrix: Solid

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)
320-90614-2	Core Vertex 2.5	88	43	77	86	79	92	84	85
LCS 320-608972/2-A	Lab Control Sample	104	74	89	94	90	94	91	96
MB 320-608972/1-A	Method Blank	103	75	87	95	90	96	95	96

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFUnA (25-150)	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	d3NMFOS (25-150)
320-90614-2	Core Vertex 2.5	100	87	72	73	75	74	70	132
LCS 320-608972/2-A	Lab Control Sample	105	105	91	94	91	97	97	124
MB 320-608972/1-A	Method Blank	103	103	91	91	94	96	92	125

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	dMeFOSA (25-150)	dEtFOSA (25-150)	NMFM (10-120)	NEFM (10-120)
320-90614-2	Core Vertex 2.5	149	145	160 *5+	147	69	76	80	106
LCS 320-608972/2-A	Lab Control Sample	127	106	104	113	94	99	90	91
MB 320-608972/1-A	Method Blank	131	107	105	111	93	99	85	92

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	MFHEA (25-150)	MFOEA (25-150)	MFDEA (25-150)	MFHUEA (25-150)	MFOUEA (25-150)	MFDUEA (25-150)	M102FTS (25-150)
320-90614-2	Core Vertex 2.5	68	120	126	132	102	120	111	133
LCS 320-608972/2-A	Lab Control Sample	86	96	103	125	91	102	106	98
MB 320-608972/1-A	Method Blank	85	90	95	125	87	102	110	100

#### Surrogate Legend

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

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# Isotope Dilution Summary

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

MFOEA = 13C-8:2 FTCA  
 MFDEA = 13C-10:2 FTCA  
 MFHUEA = 13C-6:2 FTUCA  
 MFOUEA = 13C-8:2 FTUCA  
 MFDUEA = 13C-10:2 FTUCA  
 M102FTS = 13C2 10:2 FTS

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

Matrix: Solid

Prep Type: Post-Treatment

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)
320-90614-2	Core Vertex 2.5	94	106	111	130	110	113	121	108
LCS 320-608980/2-A	Lab Control Sample	94	107	109	123	110	112	113	106
LCS 320-608980/3-A	Lab Control Sample Dup	100	112	117	133	116	115	121	115
MB 320-608980/1-A	Method Blank	101	114	118	122	116	113	119	112

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFUnA (25-150)	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	d3NMFOS (25-150)
320-90614-2	Core Vertex 2.5	100	89	97	101	106	112	103	134
LCS 320-608980/2-A	Lab Control Sample	103	91	101	97	110	112	105	123
LCS 320-608980/3-A	Lab Control Sample Dup	107	98	106	104	115	119	107	129
MB 320-608980/1-A	Method Blank	108	97	109	109	114	121	107	138

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	M242FTS (0-10)	M262FTS (25-150)	M282FTS (25-150)	dMeFOSA (25-150)	dEtFOSA (25-150)	NMFM (25-150)	NEFM (25-150)
320-90614-2	Core Vertex 2.5	135	0	106	120	50	43	48	42
LCS 320-608980/2-A	Lab Control Sample	117	0	90	82	41	36	41	31
LCS 320-608980/3-A	Lab Control Sample Dup	130	0	100	94	39	31	48	38
MB 320-608980/1-A	Method Blank	132	0	102	97	37	30	31	23 *5-

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	MFHEA (25-150)	MFOEA (25-150)	MFDEA (25-150)	MFHUEA (25-150)	MFOUEA (25-150)	MFDUEA (25-150)	M102FTS (25-150)
320-90614-2	Core Vertex 2.5	107	100	102	104	149	144	140	90
LCS 320-608980/2-A	Lab Control Sample	109	91	90	90	136	131	132	74
LCS 320-608980/3-A	Lab Control Sample Dup	109	100	97	100	144	138	140	83
MB 320-608980/1-A	Method Blank	111	103	92	105	147	139	141	83

#### Surrogate Legend

PFOSA = 13C8 FOSA  
 PFBA = 13C4 PFBA  
 PFPeA = 13C5 PFPeA  
 PFHxA = 13C2 PFHxA  
 C4PFHA = 13C4 PFHpA  
 PFOA = 13C4 PFOA  
 PFNA = 13C5 PFNA  
 PFDA = 13C2 PFDA  
 PFUnA = 13C2 PFUnA  
 PFDoA = 13C2 PFDoA  
 PFTDA = 13C2 PFTeDA  
 PFHxDA = 13C2 PFHxDA  
 C3PFBS = 13C3 PFBS  
 PFHxS = 18O2 PFHxS  
 PFOS = 13C4 PFOS  
 d3NMFOS = d3-NMeFOSAA

# Isotope Dilution Summary

Job ID: 320-90614-1

Client: David Teter Consulting  
Project/Site: PFAS, Product Testing

d5NEFOS = d5-NEtFOSAA  
M242FTS = M2-4:2 FTS  
M262FTS = M2-6:2 FTS  
M282FTS = M2-8:2 FTS  
dMeFOSA = d-N-MeFOSA-M  
dEtFOSA = d-N-EtFOSA-M  
NMFm = d7-N-MeFOSE-M  
NEFM = d9-N-EtFOSE-M  
HFPODA = 13C3 HFPO-DA  
MFHEA = 13C-6:2 FTCA  
MFOEA = 13C-8:2 FTCA  
MFDEA = 13C-10:2 FTCA  
MFHUEA = 13C-6:2 FTUCA  
MFOUEA = 13C-8:2 FTUCA  
MFDUEA = 13C-10:2 FTUCA  
M102FTS = 13C2 10:2 FTS

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: MB 320-608972/1-A**  
**Matrix: Solid**  
**Analysis Batch: 609328**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 608972**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		0.20	0.046	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.041	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.031	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.038	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.053	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.022	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.048	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.042	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.030	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20	0.021	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.037	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	ND		0.20	0.038	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluoro-n-octadecanoic acid (PFODA)	ND		0.20	0.066	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.038	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.037	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.029	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.049	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.043	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.029	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.052	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.047	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Perfluorooctanesulfonamide (FOSA)	ND		0.20	0.033	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
NMeFOSAA	ND		0.20	0.023	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
NEtFOSAA	ND		0.20	0.048	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
4:2 FTS	ND		0.20	0.051	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
6:2 FTS	ND		0.20	0.027	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
8:2 FTS	ND		0.20	0.035	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
10:2 FTS	ND		0.20	0.038	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
NEtFOSA	ND		0.20	0.047	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
NMeFOSA	ND		0.20	0.049	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
NMeFOSE	ND		0.20	0.047	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
NEtFOSE	ND		0.20	0.028	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
HFPO-DA (GenX)	ND		0.20	0.041	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
9Cl-PF3ONS	ND		0.20	0.035	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
11Cl-PF3OUdS	ND		0.20	0.031	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.039	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
3:3 FTCA	ND		0.20	0.041	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
5:3 FTCA	ND		0.20	0.038	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
7:3 FTCA	ND		0.20	0.041	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
6:2 FTCA	ND		0.30	0.10	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
6:2 FTUCA	ND		0.20	0.071	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
8:2 FTCA	ND		0.20	0.040	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
8:2 FTUCA	ND		0.20	0.027	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
10:2 FTCA	ND		0.20	0.025	ug/Kg		08/11/22 19:01	08/14/22 12:44	1

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: MB 320-608972/1-A**  
**Matrix: Solid**  
**Analysis Batch: 609328**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 608972**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTUCA	ND		0.20	0.049	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFECHS	ND		0.20	0.044	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFPPrS	ND		0.20	0.030	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
NFDHA	ND		0.20	0.040	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFMBA	ND		0.20	0.045	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFMPA	ND		0.20	0.024	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFEESA	ND		0.20	0.032	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFMOAA	ND		0.20	0.021	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFPE-1	ND		0.20	0.035	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFO4DA	ND		0.20	0.046	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFO3OA	ND		0.20	0.040	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFO2HxA	ND		0.20	0.058	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFO5DA	ND		0.20	0.068	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PMPA	ND		0.20	0.030	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PEPA	ND		0.20	0.052	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
MTP	ND		0.20	0.099	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
PFPPrA	ND		0.20	0.029	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
R-EVE	ND		0.20	0.044	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
NVHOS	ND		0.50	0.14	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Hydro-EVE Acid	ND		0.20	0.029	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
R-PSDA	ND		0.20	0.052	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Hydrolyzed PSDA	ND		0.20	0.067	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
R-PSDCA	ND		0.30	0.10	ug/Kg		08/11/22 19:01	08/14/22 12:44	1
Hydro-PS Acid	ND		0.20	0.048	ug/Kg		08/11/22 19:01	08/14/22 12:44	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	103		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C4 PFBA	75		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C5 PFPeA	87		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C2 PFHxA	95		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C4 PFHpA	90		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C4 PFOA	96		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C5 PFNA	95		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C2 PFDA	96		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C2 PFUnA	103		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C2 PFDoA	103		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C2 PFTeDA	91		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C2 PFHxDA	91		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C3 PFBS	94		25 - 150	08/11/22 19:01	08/14/22 12:44	1
18O2 PFHxS	96		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C4 PFOS	92		25 - 150	08/11/22 19:01	08/14/22 12:44	1
d3-NMeFOSAA	125		25 - 150	08/11/22 19:01	08/14/22 12:44	1
d5-NEtFOSAA	131		25 - 150	08/11/22 19:01	08/14/22 12:44	1
M2-4:2 FTS	107		25 - 150	08/11/22 19:01	08/14/22 12:44	1
M2-6:2 FTS	105		25 - 150	08/11/22 19:01	08/14/22 12:44	1
M2-8:2 FTS	111		25 - 150	08/11/22 19:01	08/14/22 12:44	1
d-N-MeFOSA-M	93		25 - 150	08/11/22 19:01	08/14/22 12:44	1
d-N-EtFOSA-M	99		25 - 150	08/11/22 19:01	08/14/22 12:44	1
d7-N-MeFOSE-M	85		10 - 120	08/11/22 19:01	08/14/22 12:44	1

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: MB 320-608972/1-A**  
**Matrix: Solid**  
**Analysis Batch: 609328**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 608972**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d9-N-EtFOSE-M	92		10 - 120	08/11/22 19:01	08/14/22 12:44	1
13C3 HFPO-DA	85		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C-6:2 FTCA	90		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C-8:2 FTCA	95		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C-10:2 FTCA	125		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C-6:2 FTUCA	87		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C-8:2 FTUCA	102		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C-10:2 FTUCA	110		25 - 150	08/11/22 19:01	08/14/22 12:44	1
13C2 10:2 FTS	100		25 - 150	08/11/22 19:01	08/14/22 12:44	1

**Lab Sample ID: LCS 320-608972/2-A**  
**Matrix: Solid**  
**Analysis Batch: 609328**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 608972**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	2.00	2.00		ug/Kg		100	76 - 136
Perfluoropentanoic acid (PFPeA)	2.00	2.13		ug/Kg		107	69 - 129
Perfluorohexanoic acid (PFHxA)	2.00	1.84		ug/Kg		92	71 - 131
Perfluoroheptanoic acid (PFHpA)	2.00	2.02		ug/Kg		101	71 - 131
Perfluorooctanoic acid (PFOA)	2.00	1.99		ug/Kg		99	72 - 132
Perfluorononanoic acid (PFNA)	2.00	2.00		ug/Kg		100	73 - 133
Perfluorodecanoic acid (PFDA)	2.00	1.63		ug/Kg		81	72 - 132
Perfluoroundecanoic acid (PFUnA)	2.00	1.90		ug/Kg		95	66 - 126
Perfluorododecanoic acid (PFDoA)	2.00	1.89		ug/Kg		94	71 - 131
Perfluorotridecanoic acid (PFTrDA)	2.00	1.84		ug/Kg		92	71 - 131
Perfluorotetradecanoic acid (PFTeA)	2.00	1.96		ug/Kg		98	67 - 127
Perfluoro-n-hexadecanoic acid (PFHxDA)	2.00	2.05		ug/Kg		102	75 - 135
Perfluoro-n-octadecanoic acid (PFODA)	2.00	2.06		ug/Kg		103	53 - 130
Perfluorobutanesulfonic acid (PFBS)	1.78	1.93		ug/Kg		109	69 - 129
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.94		ug/Kg		103	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.72		ug/Kg		94	62 - 122
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.98		ug/Kg		104	76 - 136
Perfluorooctanesulfonic acid (PFOS)	1.86	1.88		ug/Kg		101	68 - 141
Perfluorononanesulfonic acid (PFNS)	1.92	1.97		ug/Kg		102	72 - 132
Perfluorodecanesulfonic acid (PFDS)	1.93	1.97		ug/Kg		102	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	1.94	2.02		ug/Kg		104	70 - 130
Perfluorooctanesulfonamide (FOSA)	2.00	1.93		ug/Kg		97	77 - 137
NMeFOSAA	2.00	2.04		ug/Kg		102	72 - 132

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: LCS 320-608972/2-A**  
**Matrix: Solid**  
**Analysis Batch: 609328**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 608972**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSAA	2.00	1.99		ug/Kg		100	72 - 132
4:2 FTS	1.88	1.94		ug/Kg		103	68 - 143
6:2 FTS	1.90	1.86		ug/Kg		98	73 - 139
8:2 FTS	1.92	1.95		ug/Kg		102	75 - 135
10:2 FTS	1.93	1.91		ug/Kg		99	69 - 145
NEtFOSA	2.00	2.01		ug/Kg		101	47 - 161
NMeFOSA	2.00	2.02		ug/Kg		101	63 - 148
NMeFOSE	2.00	1.92		ug/Kg		96	43 - 153
NEtFOSE	2.00	1.88		ug/Kg		94	44 - 155
HFPO-DA (GenX)	2.00	1.98		ug/Kg		99	53 - 158
9Cl-PF3ONS	1.87	1.75		ug/Kg		93	74 - 134
11Cl-PF3OUdS	1.89	2.00		ug/Kg		106	66 - 136
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.93		ug/Kg		102	79 - 139
3:3 FTCA	2.00	1.70		ug/Kg		85	50 - 150
5:3 FTCA	2.00	2.12		ug/Kg		106	50 - 150
7:3 FTCA	2.00	2.07		ug/Kg		104	50 - 150
6:2 FTCA	2.00	1.74		ug/Kg		87	50 - 150
6:2 FTUCA	2.00	2.20		ug/Kg		110	50 - 150
8:2 FTCA	2.00	1.70		ug/Kg		85	50 - 150
8:2 FTUCA	2.00	2.08		ug/Kg		104	50 - 150
10:2 FTCA	2.00	1.69		ug/Kg		84	50 - 150
10:2 FTUCA	2.00	2.37		ug/Kg		119	50 - 150
PFECHS	1.85	2.02		ug/Kg		110	50 - 150
PFPrS	1.84	1.97		ug/Kg		107	50 - 150
NFDHA	2.00	1.69		ug/Kg		85	50 - 150
PFMBA	2.00	2.11		ug/Kg		106	50 - 150
PFMPA	2.00	1.86		ug/Kg		93	50 - 150
PFEESA	1.78	1.93		ug/Kg		108	50 - 150
PFMOAA	2.00	1.12		ug/Kg		56	50 - 150
PFPE-1	2.00	1.79		ug/Kg		90	50 - 150
PFO4DA	2.00	1.25		ug/Kg		63	50 - 150
PFO3OA	2.00	1.38		ug/Kg		69	50 - 150
PFO2HxA	2.00	1.49		ug/Kg		75	50 - 150
PFO5DA	2.00	1.55		ug/Kg		77	50 - 150
PMPA	2.00	1.62		ug/Kg		81	50 - 150
PEPA	2.00	1.77		ug/Kg		89	50 - 150
MTP	2.00	ND	*-	ug/Kg		4	50 - 150
PFPrA	1.94	0.717	*-	ug/Kg		37	50 - 150
R-EVE	2.00	4.32	*+	ug/Kg		216	50 - 150
NVHOS	2.00	2.05		ug/Kg		102	50 - 150
Hydro-EVE Acid	2.00	2.05		ug/Kg		103	50 - 150
R-PSDA	2.00	3.03	*+	ug/Kg		151	50 - 150
Hydrolyzed PSDA	2.00	2.13		ug/Kg		107	50 - 150
R-PSDCA	2.00	1.77		ug/Kg		89	50 - 150
Hydro-PS Acid	2.00	2.00		ug/Kg		100	50 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
<sup>13</sup> C8 FOSA	104		25 - 150



# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: LCS 320-608972/2-A**  
**Matrix: Solid**  
**Analysis Batch: 609328**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 608972**

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFBA	74		25 - 150
13C5 PFPeA	89		25 - 150
13C2 PFHxA	94		25 - 150
13C4 PFHpA	90		25 - 150
13C4 PFOA	94		25 - 150
13C5 PFNA	91		25 - 150
13C2 PFDA	96		25 - 150
13C2 PFUnA	105		25 - 150
13C2 PFDoA	105		25 - 150
13C2 PFTeDA	91		25 - 150
13C2 PFHxDA	94		25 - 150
13C3 PFBS	91		25 - 150
18O2 PFHxS	97		25 - 150
13C4 PFOS	97		25 - 150
d3-NMeFOSAA	124		25 - 150
d5-NEtFOSAA	127		25 - 150
M2-4:2 FTS	106		25 - 150
M2-6:2 FTS	104		25 - 150
M2-8:2 FTS	113		25 - 150
d-N-MeFOSA-M	94		25 - 150
d-N-EtFOSA-M	99		25 - 150
d7-N-MeFOSE-M	90		10 - 120
d9-N-EtFOSE-M	91		10 - 120
13C3 HFPO-DA	86		25 - 150
13C-6:2 FTCA	96		25 - 150
13C-8:2 FTCA	103		25 - 150
13C-10:2 FTCA	125		25 - 150
13C-6:2 FTUCA	91		25 - 150
13C-8:2 FTUCA	102		25 - 150
13C-10:2 FTUCA	106		25 - 150
13C2 10:2 FTS	98		25 - 150

**Lab Sample ID: MB 320-608980/1-A**  
**Matrix: Solid**  
**Analysis Batch: 617867**

**Client Sample ID: Method Blank**  
**Prep Type: Post-Treatment**  
**Prep Batch: 608980**

<i>Analyte</i>	<i>MB</i>	<i>MB</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>							
Perfluorobutanoic acid (PFBA)	1.05		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluoropentanoic acid (PFPeA)	ND		0.50	0.10	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorohexanoic acid (PFHxA)	ND		0.50	0.078	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluoroheptanoic acid (PFHpA)	ND		0.50	0.095	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorooctanoic acid (PFOA)	ND		0.50	0.13	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorononanoic acid (PFNA)	ND		0.50	0.055	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorodecanoic acid (PFDA)	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluoroundecanoic acid (PFUnA)	ND		0.50	0.11	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorododecanoic acid (PFDoA)	ND		0.50	0.075	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.50	0.053	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.50	0.093	ug/Kg		08/11/22 21:56	09/19/22 12:23	1

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: MB 320-608980/1-A**  
**Matrix: Solid**  
**Analysis Batch: 617867**

**Client Sample ID: Method Blank**  
**Prep Type: Post-Treatment**  
**Prep Batch: 608980**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-n-hexadecanoic acid (PFHxDA)	ND		0.50	0.095	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluoro-n-octadecanoic acid (PFODA)	ND		0.50	0.17	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.50	0.095	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.50	0.093	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.50	0.073	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.50	0.11	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorononanesulfonic acid (PFNS)	ND		0.50	0.073	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.50	0.13	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Perfluorooctanesulfonamide (FOSA)	ND		0.50	0.083	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
NMeFOSAA	ND		0.50	0.058	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
NEtFOSAA	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
4:2 FTS	ND		0.50	0.13	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
6:2 FTS	ND		0.50	0.068	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
8:2 FTS	ND		0.50	0.088	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
10:2 FTS	ND		0.50	0.095	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
NEtFOSA	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
NMeFOSA	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
NMeFOSE	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
NEtFOSE	ND		0.50	0.070	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
HFPO-DA (GenX)	ND		0.50	0.10	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
9Cl-PF3ONS	ND		0.50	0.088	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
11Cl-PF3OUdS	ND		0.50	0.078	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.50	0.098	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
3:3 FTCA	ND		0.50	0.10	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
5:3 FTCA	ND		0.50	0.095	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
7:3 FTCA	ND		0.50	0.10	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
6:2 FTCA	ND		0.75	0.25	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
6:2 FTUCA	ND		0.50	0.18	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
8:2 FTCA	ND		0.50	0.10	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
8:2 FTUCA	ND		0.50	0.068	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
10:2 FTCA	ND		0.50	0.063	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
10:2 FTUCA	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFECHS	ND		0.50	0.11	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFPrS	ND		0.50	0.075	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
NFDHA	ND		0.50	0.10	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFMBA	ND		0.50	0.11	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFMPA	ND		0.50	0.060	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFEESA	ND		0.50	0.080	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFMOAA	ND		0.50	0.053	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFPE-1	ND		0.50	0.088	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFO4DA	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFO3OA	ND		0.50	0.10	ug/Kg		08/11/22 21:56	09/19/22 12:23	1

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: MB 320-608980/1-A**  
**Matrix: Solid**  
**Analysis Batch: 617867**

**Client Sample ID: Method Blank**  
**Prep Type: Post-Treatment**  
**Prep Batch: 608980**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFO2HxA	ND		0.50	0.15	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFO5DA	ND		0.50	0.17	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PMPA	ND		0.50	0.075	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PEPA	ND		0.50	0.13	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
MTP	ND		0.50	0.25	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
PFPPrA	0.378	J	0.50	0.073	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
R-EVE	ND		0.50	0.11	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
NVHOS	ND		1.3	0.34	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Hydro-EVE Acid	ND		0.50	0.073	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
R-PSDA	ND		0.50	0.13	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Hydrolyzed PSDA	ND		0.50	0.17	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
R-PSDCA	ND		0.75	0.26	ug/Kg		08/11/22 21:56	09/19/22 12:23	1
Hydro-PS Acid	ND		0.50	0.12	ug/Kg		08/11/22 21:56	09/19/22 12:23	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	101		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C4 PFBA	114		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C5 PFPeA	118		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C2 PFHxA	122		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C4 PFHpA	116		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C4 PFOA	113		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C5 PFNA	119		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C2 PFDA	112		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C2 PFUnA	108		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C2 PFDoA	97		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C2 PFTeDA	109		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C2 PFHxDA	109		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C3 PFBS	114		25 - 150	08/11/22 21:56	09/19/22 12:23	1
18O2 PFHxS	121		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C4 PFOS	107		25 - 150	08/11/22 21:56	09/19/22 12:23	1
d3-NMeFOSAA	138		25 - 150	08/11/22 21:56	09/19/22 12:23	1
d5-NEtFOSAA	132		25 - 150	08/11/22 21:56	09/19/22 12:23	1
M2-4:2 FTS	0		0 - 10	08/11/22 21:56	09/19/22 12:23	1
M2-6:2 FTS	102		25 - 150	08/11/22 21:56	09/19/22 12:23	1
M2-8:2 FTS	97		25 - 150	08/11/22 21:56	09/19/22 12:23	1
d-N-MeFOSA-M	37		25 - 150	08/11/22 21:56	09/19/22 12:23	1
d-N-EtFOSA-M	30		25 - 150	08/11/22 21:56	09/19/22 12:23	1
d7-N-MeFOSE-M	31		25 - 150	08/11/22 21:56	09/19/22 12:23	1
d9-N-EtFOSE-M	23	*5-	25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C3 HFPO-DA	111		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C-6:2 FTCA	103		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C-8:2 FTCA	92		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C-10:2 FTCA	105		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C-6:2 FTUCA	147		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C-8:2 FTUCA	139		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C-10:2 FTUCA	141		25 - 150	08/11/22 21:56	09/19/22 12:23	1
13C2 10:2 FTS	83		25 - 150	08/11/22 21:56	09/19/22 12:23	1

# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: LCS 320-608980/2-A**  
**Matrix: Solid**  
**Analysis Batch: 617867**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Post-Treatment**  
**Prep Batch: 608980**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	5.00	12.6	*+	ug/Kg		252	96 - 183
Perfluoropentanoic acid (PFPeA)	5.00	10.6	*+	ug/Kg		212	81 - 141
Perfluorohexanoic acid (PFHxA)	5.00	12.1	*+	ug/Kg		242	92 - 152
Perfluoroheptanoic acid (PFHpA)	5.00	11.0	*+	ug/Kg		219	100 - 160
Perfluorooctanoic acid (PFOA)	5.00	18.7		ug/Kg		374	169 - 414
Perfluorononanoic acid (PFNA)	5.00	7.82	*+	ug/Kg		156	82 - 142
Perfluorodecanoic acid (PFDA)	5.00	6.85		ug/Kg		137	81 - 141
Perfluoroundecanoic acid (PFUnA)	5.00	4.76		ug/Kg		95	70 - 130
Perfluorododecanoic acid (PFDoA)	5.00	4.79		ug/Kg		96	63 - 123
Perfluorotridecanoic acid (PFTrDA)	5.00	3.99		ug/Kg		80	63 - 123
Perfluorotetradecanoic acid (PFTeA)	5.00	3.39		ug/Kg		68	55 - 115
Perfluoro-n-hexadecanoic acid (PFHxDA)	5.00	3.51		ug/Kg		70	42 - 102
Perfluoro-n-octadecanoic acid (PFODA)	5.00	2.69		ug/Kg		54	36 - 96
Perfluorobutanesulfonic acid (PFBS)	4.44	4.70		ug/Kg		106	74 - 134
Perfluoropentanesulfonic acid (PFPeS)	4.69	4.62		ug/Kg		99	68 - 134
Perfluorohexanesulfonic acid (PFHxS)	4.56	4.11		ug/Kg		90	61 - 121
Perfluoroheptanesulfonic acid (PFHpS)	4.77	4.47		ug/Kg		94	68 - 128
Perfluorooctanesulfonic acid (PFOS)	4.65	4.21		ug/Kg		90	70 - 138
Perfluorononanesulfonic acid (PFNS)	4.81	4.16		ug/Kg		87	66 - 126
Perfluorodecanesulfonic acid (PFDS)	4.82	4.05		ug/Kg		84	66 - 126
Perfluorododecanesulfonic acid (PFDoS)	4.85	3.29	*-	ug/Kg		68	70 - 130
Perfluorooctanesulfonamide (FOSA)	5.00	ND		ug/Kg		0	0 - 10
NMeFOSAA	5.00	ND		ug/Kg		0	0 - 10
NEtFOSAA	5.00	ND		ug/Kg		0	0 - 10
4:2 FTS	4.69	ND		ug/Kg		0	0 - 10
6:2 FTS	4.76	ND		ug/Kg		0	0 - 10
8:2 FTS	4.80	ND		ug/Kg		0	0 - 10
10:2 FTS	4.83	ND		ug/Kg		0	0 - 10
NEtFOSA	5.00	ND		ug/Kg		0	0 - 10
NMeFOSA	5.00	ND		ug/Kg		0	0 - 10
NMeFOSE	5.00	ND		ug/Kg		0	0 - 10
NEtFOSE	5.00	ND		ug/Kg		0	0 - 10
HFPO-DA (GenX)	5.00	4.28		ug/Kg		86	53 - 158
9Cl-PF3ONS	4.67	3.79		ug/Kg		81	74 - 134
11Cl-PF3OUdS	4.72	3.29		ug/Kg		70	66 - 136
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.72	ND		ug/Kg		0	0 - 10

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: LCS 320-608980/2-A**  
**Matrix: Solid**  
**Analysis Batch: 617867**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Post-Treatment**  
**Prep Batch: 608980**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3:3 FTCA	5.00	ND		ug/Kg		0	0 - 10
5:3 FTCA	5.00	ND		ug/Kg		0	0 - 10
7:3 FTCA	5.00	ND		ug/Kg		0	0 - 10
6:2 FTCA	5.00	ND		ug/Kg		0	0 - 10
6:2 FTUCA	5.00	ND		ug/Kg		0	0 - 10
8:2 FTCA	5.00	ND		ug/Kg		0	0 - 10
8:2 FTUCA	5.00	ND		ug/Kg		0	0 - 10
10:2 FTCA	5.00	ND		ug/Kg		0	0 - 10
10:2 FTUCA	5.00	ND		ug/Kg		0	0 - 10
PFECHS	4.62	4.04		ug/Kg		87	50 - 150
PFPPrS	4.60	5.17		ug/Kg		112	50 - 150
NFDHA	5.00	4.28		ug/Kg		86	50 - 150
PFMBA	5.00	5.03		ug/Kg		101	50 - 150
PFMPA	5.00	8.14	*+	ug/Kg		163	50 - 150
PFEESA	4.46	4.73		ug/Kg		106	50 - 150
PFMOAA	5.00	4.77		ug/Kg		95	50 - 150
PFPE-1	5.00	5.73		ug/Kg		115	50 - 150
PFO4DA	5.00	3.69		ug/Kg		74	50 - 150
PFO3OA	5.00	3.83		ug/Kg		77	50 - 150
PFO2HxA	5.00	4.61		ug/Kg		92	50 - 150
PFO5DA	5.00	3.64		ug/Kg		73	50 - 150
PMPA	5.00	5.29		ug/Kg		106	50 - 150
PEPA	5.00	4.21		ug/Kg		84	50 - 150
MTP	5.00	2.25	*+	ug/Kg		45	0 - 10
PFPPrA	4.85	4.75		ug/Kg		98	50 - 150
R-EVE	5.00	7.41		ug/Kg		148	50 - 150
NVHOS	5.00	ND		ug/Kg		0	0 - 10
Hydro-EVE Acid	5.00	ND		ug/Kg		0	0 - 10
R-PSDA	5.00	7.65	*+	ug/Kg		153	50 - 150
Hydrolyzed PSDA	5.00	ND		ug/Kg		0	0 - 10
R-PSDCA	5.00	ND		ug/Kg		0	0 - 10
Hydro-PS Acid	5.00	ND		ug/Kg		0	0 - 10

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C8 FOSA	94		25 - 150
13C4 PFBA	107		25 - 150
13C5 PFPeA	109		25 - 150
13C2 PFHxA	123		25 - 150
13C4 PFHpA	110		25 - 150
13C4 PFOA	112		25 - 150
13C5 PFNA	113		25 - 150
13C2 PFDA	106		25 - 150
13C2 PFUnA	103		25 - 150
13C2 PFDoA	91		25 - 150
13C2 PFTeDA	101		25 - 150
13C2 PFHxDA	97		25 - 150
13C3 PFBS	110		25 - 150
18O2 PFHxS	112		25 - 150
13C4 PFOS	105		25 - 150

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: LCS 320-608980/2-A**  
**Matrix: Solid**  
**Analysis Batch: 617867**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Post-Treatment**  
**Prep Batch: 608980**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
d3-NMeFOSAA	123		25 - 150
d5-NEtFOSAA	117		25 - 150
M2-4:2 FTS	0		0 - 10
M2-6:2 FTS	90		25 - 150
M2-8:2 FTS	82		25 - 150
d-N-MeFOSA-M	41		25 - 150
d-N-EtFOSA-M	36		25 - 150
d7-N-MeFOSE-M	41		25 - 150
d9-N-EtFOSE-M	31		25 - 150
13C3 HFPO-DA	109		25 - 150
13C-6:2 FTCA	91		25 - 150
13C-8:2 FTCA	90		25 - 150
13C-10:2 FTCA	90		25 - 150
13C-6:2 FTUCA	136		25 - 150
13C-8:2 FTUCA	131		25 - 150
13C-10:2 FTUCA	132		25 - 150
13C2 10:2 FTS	74		25 - 150

**Lab Sample ID: LCSD 320-608980/3-A**  
**Matrix: Solid**  
**Analysis Batch: 617867**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Post-Treatment**  
**Prep Batch: 608980**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Perfluorobutanoic acid (PFBA)	5.00	12.6	*+	ug/Kg		251	96 - 183	0	30
Perfluoropentanoic acid (PFPeA)	5.00	10.2	*+	ug/Kg		205	81 - 141	4	30
Perfluorohexanoic acid (PFHxA)	5.00	11.3	*+	ug/Kg		226	92 - 152	7	30
Perfluoroheptanoic acid (PFHpA)	5.00	10.7	*+	ug/Kg		214	100 - 160	2	30
Perfluorooctanoic acid (PFOA)	5.00	19.4		ug/Kg		387	169 - 414	3	30
Perfluorononanoic acid (PFNA)	5.00	7.93	*+	ug/Kg		159	82 - 142	1	30
Perfluorodecanoic acid (PFDA)	5.00	6.59		ug/Kg		132	81 - 141	4	30
Perfluoroundecanoic acid (PFUnA)	5.00	4.98		ug/Kg		100	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	5.00	4.86		ug/Kg		97	63 - 123	2	30
Perfluorotridecanoic acid (PFTTrDA)	5.00	4.38		ug/Kg		88	63 - 123	9	30
Perfluorotetradecanoic acid (PFTeA)	5.00	3.83		ug/Kg		77	55 - 115	12	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	5.00	4.06		ug/Kg		81	42 - 102	15	30
Perfluoro-n-octadecanoic acid (PFODA)	5.00	3.01		ug/Kg		60	36 - 96	11	30
Perfluorobutanesulfonic acid (PFBS)	4.44	5.06		ug/Kg		114	74 - 134	7	30
Perfluoropentanesulfonic acid (PFPeS)	4.69	4.89		ug/Kg		104	68 - 134	6	30
Perfluorohexanesulfonic acid (PFHxS)	4.56	4.46		ug/Kg		98	61 - 121	8	30
Perfluoroheptanesulfonic acid (PFHpS)	4.77	4.52		ug/Kg		95	68 - 128	1	30
Perfluorooctanesulfonic acid (PFOS)	4.65	4.88		ug/Kg		105	70 - 138	15	30

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: LCSD 320-608980/3-A**  
**Matrix: Solid**  
**Analysis Batch: 617867**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Post-Treatment**  
**Prep Batch: 608980**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorononanesulfonic acid (PFNS)	4.81	4.54		ug/Kg		94	66 - 126	9	30
Perfluorodecanesulfonic acid (PFDS)	4.82	4.28		ug/Kg		89	66 - 126	5	30
Perfluorododecanesulfonic acid (PFDoS)	4.85	3.82		ug/Kg		79	70 - 130	15	30
Perfluorooctanesulfonamide (FOSA)	5.00	ND		ug/Kg		0	0 - 10	NC	30
NMeFOSAA	5.00	ND		ug/Kg		0	0 - 10	NC	30
NEtFOSAA	5.00	ND		ug/Kg		0	0 - 10	NC	30
4:2 FTS	4.69	ND		ug/Kg		0	0 - 10	NC	30
6:2 FTS	4.76	ND		ug/Kg		0	0 - 10	NC	30
8:2 FTS	4.80	ND		ug/Kg		0	0 - 10	NC	30
10:2 FTS	4.83	ND		ug/Kg		0	0 - 10	NC	30
NEtFOSA	5.00	ND		ug/Kg		0	0 - 10	NC	30
NMeFOSA	5.00	ND		ug/Kg		0	0 - 10	NC	30
NMeFOSE	5.00	ND		ug/Kg		0	0 - 10	NC	30
NEtFOSE	5.00	ND		ug/Kg		0	0 - 10	NC	30
HFPO-DA (GenX)	5.00	4.65		ug/Kg		93	53 - 158	8	30
9Cl-PF3ONS	4.67	3.73		ug/Kg		80	74 - 134	1	30
11Cl-PF3OUdS	4.72	3.46		ug/Kg		73	66 - 136	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.72	ND		ug/Kg		0	0 - 10	NC	30
3:3 FTCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
5:3 FTCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
7:3 FTCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
6:2 FTCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
6:2 FTUCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
8:2 FTCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
8:2 FTUCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
10:2 FTCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
10:2 FTUCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
PFECHS	4.62	4.25		ug/Kg		92	50 - 150	5	30
PFPrS	4.60	5.03		ug/Kg		109	50 - 150	3	30
NFDHA	5.00	4.19		ug/Kg		84	50 - 150	2	30
PFMBA	5.00	5.08		ug/Kg		102	50 - 150	1	30
PFMPA	5.00	7.99	*+	ug/Kg		160	50 - 150	2	30
PFEESA	4.46	4.83		ug/Kg		108	50 - 150	2	30
PFMOAA	5.00	4.75		ug/Kg		95	50 - 150	0	30
PFPE-1	5.00	5.29		ug/Kg		106	50 - 150	8	30
PFO4DA	5.00	3.27		ug/Kg		65	50 - 150	12	30
PFO3OA	5.00	3.78		ug/Kg		76	50 - 150	1	30
PFO2HxA	5.00	4.47		ug/Kg		89	50 - 150	3	30
PFO5DA	5.00	3.64		ug/Kg		73	50 - 150	0	30
PMPA	5.00	5.27		ug/Kg		105	50 - 150	0	30
PEPA	5.00	4.33		ug/Kg		87	50 - 150	3	30
MTP	5.00	2.30	*+	ug/Kg		46	0 - 10	2	30
PFPrA	4.85	5.36		ug/Kg		111	50 - 150	12	30
R-EVE	5.00	7.93	*+	ug/Kg		159	50 - 150	7	30
NVHOS	5.00	ND		ug/Kg		0	0 - 10	NC	30

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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

**Lab Sample ID: LCSD 320-608980/3-A**  
**Matrix: Solid**  
**Analysis Batch: 617867**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Post-Treatment**  
**Prep Batch: 608980**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hydro-EVE Acid	5.00	ND		ug/Kg		0	0 - 10	NC	30
R-PSDA	5.00	8.02	*+	ug/Kg		160	50 - 150	5	30
Hydrolyzed PSDA	5.00	ND		ug/Kg		0	0 - 10	NC	30
R-PSDCA	5.00	ND		ug/Kg		0	0 - 10	NC	30
Hydro-PS Acid	5.00	ND		ug/Kg		0	0 - 10	NC	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C8 FOSA	100		25 - 150
13C4 PFBA	112		25 - 150
13C5 PFPeA	117		25 - 150
13C2 PFHxA	133		25 - 150
13C4 PFHpA	116		25 - 150
13C4 PFOA	115		25 - 150
13C5 PFNA	121		25 - 150
13C2 PFDA	115		25 - 150
13C2 PFUnA	107		25 - 150
13C2 PFDoA	98		25 - 150
13C2 PFTeDA	106		25 - 150
13C2 PFHxDA	104		25 - 150
13C3 PFBS	115		25 - 150
18O2 PFHxS	119		25 - 150
13C4 PFOS	107		25 - 150
d3-NMeFOSAA	129		25 - 150
d5-NEtFOSAA	130		25 - 150
M2-4:2 FTS	0		0 - 10
M2-6:2 FTS	100		25 - 150
M2-8:2 FTS	94		25 - 150
d-N-MeFOSA-M	39		25 - 150
d-N-EtFOSA-M	31		25 - 150
d7-N-MeFOSE-M	48		25 - 150
d9-N-EtFOSE-M	38		25 - 150
13C3 HFPO-DA	109		25 - 150
13C-6:2 FTCA	100		25 - 150
13C-8:2 FTCA	97		25 - 150
13C-10:2 FTCA	100		25 - 150
13C-6:2 FTUCA	144		25 - 150
13C-8:2 FTUCA	138		25 - 150
13C-10:2 FTUCA	140		25 - 150
13C2 10:2 FTS	83		25 - 150

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: MB 320-618879/1-A**  
**Matrix: Solid**  
**Analysis Batch: 619999**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.15	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Barium	ND		0.20	0.14	mg/Kg		09/22/22 05:25	09/24/22 19:28	1

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# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 320-618879/1-A**  
**Matrix: Solid**  
**Analysis Batch: 619999**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	ND		0.10	0.050	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Chromium	ND		0.20	0.10	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Cobalt	ND		0.10	0.060	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Copper	ND		0.20	0.10	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Lead	ND		0.10	0.060	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Molybdenum	ND		0.20	0.020	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Nickel	ND		0.20	0.10	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Silver	ND		0.10	0.030	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Thallium	ND		0.10	0.050	mg/Kg		09/22/22 05:25	09/24/22 19:28	1
Vanadium	ND		1.0	0.30	mg/Kg		09/22/22 05:25	09/24/22 19:28	1

**Lab Sample ID: MB 320-618879/1-A**  
**Matrix: Solid**  
**Analysis Batch: 620221**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		0.20	0.10	mg/Kg		09/22/22 05:25	09/26/22 13:20	1
Beryllium	ND		0.10	0.010	mg/Kg		09/22/22 05:25	09/26/22 13:20	1
Selenium	ND		0.20	0.10	mg/Kg		09/22/22 05:25	09/26/22 13:20	1

**Lab Sample ID: MB 320-618879/1-A**  
**Matrix: Solid**  
**Analysis Batch: 620294**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Zinc	ND		1.0	0.60	mg/Kg		09/22/22 05:25	09/26/22 19:08	1

**Lab Sample ID: LCS 320-618879/2-A**  
**Matrix: Solid**  
**Analysis Batch: 619999**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	40.0	43.5		mg/Kg		109	80 - 120
Cadmium	20.0	21.6		mg/Kg		108	80 - 120
Chromium	20.0	21.1		mg/Kg		106	80 - 120
Cobalt	20.0	20.3		mg/Kg		101	80 - 120
Copper	20.0	21.0		mg/Kg		105	80 - 120
Lead	20.0	21.2		mg/Kg		106	80 - 120
Molybdenum	20.0	20.8		mg/Kg		104	80 - 120
Nickel	20.0	21.7		mg/Kg		109	80 - 120
Silver	5.05	4.94		mg/Kg		98	80 - 120
Thallium	40.0	42.5		mg/Kg		106	80 - 120
Vanadium	20.0	20.7		mg/Kg		104	80 - 120

# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 320-618879/2-A**  
**Matrix: Solid**  
**Analysis Batch: 620221**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	20.0	21.2		mg/Kg		106	80 - 120
Beryllium	20.0	21.0		mg/Kg		105	80 - 120
Selenium	40.0	40.5		mg/Kg		101	80 - 120

**Lab Sample ID: LCS 320-618879/2-A**  
**Matrix: Solid**  
**Analysis Batch: 620294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	20.0	20.7		mg/Kg		104	80 - 120

**Lab Sample ID: 320-90614-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 619999**

**Client Sample ID: Cryogenic Rubber 14-30**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.43		38.8	38.1		mg/Kg		97	80 - 120
Barium	4.2		38.8	44.8		mg/Kg		105	80 - 120
Cadmium	0.65		19.4	19.8		mg/Kg		99	80 - 120
Chromium	1.5		19.4	20.9		mg/Kg		100	80 - 120
Cobalt	130		19.4	137	4	mg/Kg		27	80 - 120
Copper	46	F1	19.4	63.9		mg/Kg		94	80 - 120
Lead	15	F1	19.4	42.3	F1	mg/Kg		138	80 - 120
Molybdenum	0.21		19.4	18.8		mg/Kg		96	80 - 120
Nickel	2.7		19.4	22.0		mg/Kg		99	80 - 120
Silver	ND		4.90	4.44		mg/Kg		91	80 - 120
Thallium	ND		38.8	32.8		mg/Kg		84	80 - 120
Vanadium	0.75	J	19.4	18.7		mg/Kg		93	80 - 120

**Lab Sample ID: 320-90614-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 620221**

**Client Sample ID: Cryogenic Rubber 14-30**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.48	F1	19.4	11.0	F1	mg/Kg		54	80 - 120
Beryllium	ND		19.4	18.3		mg/Kg		94	80 - 120
Selenium	0.12	J	38.8	38.2		mg/Kg		98	80 - 120

**Lab Sample ID: 320-90614-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 620294**

**Client Sample ID: Cryogenic Rubber 14-30**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	14000		19.4	13900	4	mg/Kg		-1638	80 - 120

# QC Sample Results

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: 320-90614-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 619999**

**Client Sample ID: Cryogenic Rubber 14-30**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Arsenic	0.43		38.8	37.6		mg/Kg		96	80 - 120	1	20
Barium	4.2		38.8	42.4		mg/Kg		98	80 - 120	5	20
Cadmium	0.65		19.4	19.6		mg/Kg		98	80 - 120	1	20
Chromium	1.5		19.4	20.7		mg/Kg		99	80 - 120	1	20
Cobalt	130		19.4	141	4	mg/Kg		49	80 - 120	3	20
Copper	46	F1	19.4	59.1	F1	mg/Kg		69	80 - 120	8	20
Lead	15	F1	19.4	38.5		mg/Kg		119	80 - 120	9	20
Molybdenum	0.21		19.4	18.8		mg/Kg		96	80 - 120	0	20
Nickel	2.7		19.4	21.6		mg/Kg		97	80 - 120	2	20
Silver	ND		4.90	4.38		mg/Kg		90	80 - 120	1	47
Thallium	ND		38.8	34.2		mg/Kg		88	80 - 120	4	20
Vanadium	0.75	J	19.4	18.5		mg/Kg		92	80 - 120	1	20

**Lab Sample ID: 320-90614-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 620221**

**Client Sample ID: Cryogenic Rubber 14-30**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony	0.48	F1	19.4	12.2	F1	mg/Kg		60	80 - 120	10	20
Beryllium	ND		19.4	18.4		mg/Kg		95	80 - 120	0	20
Selenium	0.12	J	38.8	38.1		mg/Kg		98	80 - 120	0	20

**Lab Sample ID: 320-90614-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 620294**

**Client Sample ID: Cryogenic Rubber 14-30**  
**Prep Type: Total/NA**  
**Prep Batch: 618879**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Zinc	14000		19.4	13600	4	mg/Kg		-2936	80 - 120	2	20

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 320-620374/11-A**  
**Matrix: Solid**  
**Analysis Batch: 620585**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 620374**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil
	Result	Qualifier							
Mercury	ND		0.040	0.0080	mg/Kg		09/27/22 11:43	09/27/22 14:16	1

**Lab Sample ID: LCS 320-620374/12-A**  
**Matrix: Solid**  
**Analysis Batch: 620585**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 620374**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Mercury	0.167	0.168		mg/Kg		101	86 - 114

# QC Sample Results

Client: David Teter Consulting  
Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 320-620374/13-A  
Matrix: Solid  
Analysis Batch: 620585

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 620374

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.167	0.168		mg/Kg		100	86 - 114	0	17

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

# QC Association Summary

Client: David Teter Consulting  
Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## LCMS

### Prep Batch: 608972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-2	Core Vertex 2.5	Total/NA	Solid	SHAKE	
MB 320-608972/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-608972/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

### Prep Batch: 608980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-2	Core Vertex 2.5	Post-Treatment	Solid	TOP Post-Prep	
MB 320-608980/1-A	Method Blank	Post-Treatment	Solid	TOP Post-Prep	
LCS 320-608980/2-A	Lab Control Sample	Post-Treatment	Solid	TOP Post-Prep	
LCSD 320-608980/3-A	Lab Control Sample Dup	Post-Treatment	Solid	TOP Post-Prep	

### Analysis Batch: 609328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-2	Core Vertex 2.5	Total/NA	Solid	537 (modified)	608972
MB 320-608972/1-A	Method Blank	Total/NA	Solid	537 (modified)	608972
LCS 320-608972/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	608972

### Analysis Batch: 617867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-2	Core Vertex 2.5	Post-Treatment	Solid	537 (modified)	608980
MB 320-608980/1-A	Method Blank	Post-Treatment	Solid	537 (modified)	608980
LCS 320-608980/2-A	Lab Control Sample	Post-Treatment	Solid	537 (modified)	608980
LCSD 320-608980/3-A	Lab Control Sample Dup	Post-Treatment	Solid	537 (modified)	608980

## Metals

### Prep Batch: 618879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-1	Cryogenic Rubber 14-30	Total/NA	Solid	3050B	
MB 320-618879/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-618879/2-A	Lab Control Sample	Total/NA	Solid	3050B	
320-90614-1 MS	Cryogenic Rubber 14-30	Total/NA	Solid	3050B	
320-90614-1 MSD	Cryogenic Rubber 14-30	Total/NA	Solid	3050B	

### Analysis Batch: 619999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-1	Cryogenic Rubber 14-30	Total/NA	Solid	6020A	618879
MB 320-618879/1-A	Method Blank	Total/NA	Solid	6020A	618879
LCS 320-618879/2-A	Lab Control Sample	Total/NA	Solid	6020A	618879
320-90614-1 MS	Cryogenic Rubber 14-30	Total/NA	Solid	6020A	618879
320-90614-1 MSD	Cryogenic Rubber 14-30	Total/NA	Solid	6020A	618879

### Analysis Batch: 620221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-1	Cryogenic Rubber 14-30	Total/NA	Solid	6020A	618879
MB 320-618879/1-A	Method Blank	Total/NA	Solid	6020A	618879
LCS 320-618879/2-A	Lab Control Sample	Total/NA	Solid	6020A	618879
320-90614-1 MS	Cryogenic Rubber 14-30	Total/NA	Solid	6020A	618879
320-90614-1 MSD	Cryogenic Rubber 14-30	Total/NA	Solid	6020A	618879

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# QC Association Summary

Client: David Teter Consulting  
Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Metals

### Analysis Batch: 620294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-1	Cryogenic Rubber 14-30	Total/NA	Solid	6020A	618879
MB 320-618879/1-A	Method Blank	Total/NA	Solid	6020A	618879
LCS 320-618879/2-A	Lab Control Sample	Total/NA	Solid	6020A	618879
320-90614-1 MS	Cryogenic Rubber 14-30	Total/NA	Solid	6020A	618879
320-90614-1 MSD	Cryogenic Rubber 14-30	Total/NA	Solid	6020A	618879

### Prep Batch: 620374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-1	Cryogenic Rubber 14-30	Total/NA	Solid	7471B	
MB 320-620374/11-A	Method Blank	Total/NA	Solid	7471B	
LCS 320-620374/12-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 320-620374/13-A	Lab Control Sample Dup	Total/NA	Solid	7471B	

### Analysis Batch: 620585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90614-1	Cryogenic Rubber 14-30	Total/NA	Solid	7471B	620374
MB 320-620374/11-A	Method Blank	Total/NA	Solid	7471B	620374
LCS 320-620374/12-A	Lab Control Sample	Total/NA	Solid	7471B	620374
LCSD 320-620374/13-A	Lab Control Sample Dup	Total/NA	Solid	7471B	620374

# Lab Chronicle

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Client Sample ID: Cryogenic Rubber 14-30

## Lab Sample ID: 320-90614-1

Date Collected: 07/28/22 14:00

Matrix: Solid

Date Received: 07/29/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.98 g	100 mL	618879	09/22/22 05:25	NIM	EET SAC
Total/NA	Analysis	6020A		1			619999	09/24/22 19:35	DPM	EET SAC
Total/NA	Prep	3050B			0.98 g	100 mL	618879	09/22/22 05:25	NIM	EET SAC
Total/NA	Analysis	6020A		1			620221	09/26/22 13:26	DPM	EET SAC
Total/NA	Prep	3050B			0.98 g	100 mL	618879	09/22/22 05:25	NIM	EET SAC
Total/NA	Analysis	6020A		25			620294	09/26/22 19:15	DPM	EET SAC
Total/NA	Prep	7471B			0.60 g	50 mL	620374	09/27/22 11:43	JAP	EET SAC
Total/NA	Analysis	7471B		1			620585	09/27/22 14:44	JAP	EET SAC

## Client Sample ID: Core Vertex 2.5

## Lab Sample ID: 320-90614-2

Date Collected: 07/28/22 14:00

Matrix: Solid

Date Received: 07/29/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Post-Treatment	Prep	TOP Post-Prep			1.0 g	10.0 mL	608980	08/11/22 21:56	JER	EET SAC
Post-Treatment	Analysis	537 (modified)		1	1 mL	1 mL	617867	09/19/22 12:53	D1R	EET SAC
Total/NA	Prep	SHAKE			0.97 g	10.0 mL	608972	08/11/22 19:01	AM	EET SAC
Total/NA	Analysis	537 (modified)		1			609328	08/14/22 13:05	K1S	EET SAC

### Laboratory References:

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

# Accreditation/Certification Summary

Client: David Teter Consulting  
 Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

## Laboratory: Eurofins 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	08-11-23
Arkansas DEQ	State	88-0691	06-17-22 *
California	State	2897	01-31-23
Colorado	State	CA0004	08-31-23
Florida	NELAP	E87570	06-30-23
Georgia	State	4040	01-30-23
Hawaii	State	<cert No.>	01-29-23
Illinois	NELAP	200060	03-17-24
Kansas	NELAP	E-10375	10-31-22
Louisiana	NELAP	01944	06-30-23
Louisiana (All)	NELAP	01944	06-30-23
Maine	State	CA00004	04-14-24
Michigan	State	9947	01-31-23
Nevada	State	CA00044	07-31-23
New Hampshire	NELAP	2997	04-18-23
New Jersey	NELAP	CA005	06-30-23
New York	NELAP	11666	04-01-23
Ohio	State	41252	01-29-23
Oregon	NELAP	4040	01-29-23
Texas	NELAP	T104704399-19-13	05-31-23
US Fish & Wildlife	US Federal Programs	58448	04-30-23
USDA	US Federal Programs	P330-18-00239	01-23-23
Utah	NELAP	CA000442021-12	02-28-23
Virginia	NELAP	460278	03-14-23
Washington	State	C581	05-05-23
West Virginia (DW)	State	9930C	12-31-22
Wisconsin	State	998204680	08-31-23
Wyoming	State Program	8TMS-L	01-28-19 *

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



# Method Summary

Client: David Teter Consulting  
Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
6020A	Metals (ICP/MS)	SW846	EET SAC
7471B	Mercury (CVAA)	SW846	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
7471B	Preparation, Mercury	SW846	EET SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET SAC
TOP Post-Prep	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET SAC

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

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



# Sample Summary

Client: David Teter Consulting  
Project/Site: PFAS, Product Testing

Job ID: 320-90614-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-90614-1	Cryogenic Rubber 14-30	Solid	07/28/22 14:00	07/29/22 10:20
320-90614-2	Core Vertex 2.5	Solid	07/28/22 14:00	07/29/22 10:20

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## Login Sample Receipt Checklist

Client: David Teter Consulting

Job Number: 320-90614-1

**Login Number: 90614**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator: Her, David A**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
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.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	False	Refer to Job Narrative for details.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	