

 **ANALYTICAL REPORT****PREPARED FOR**

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**JOB DESCRIPTION**

451482 RockGen

**JOB NUMBER**

320-101518-1

# Eurofins Sacramento

## Job Notes

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

## Authorization



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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Detection Summary . . . . .	6
Client Sample Results . . . . .	8
Isotope Dilution Summary . . . . .	24
QC Sample Results . . . . .	26
QC Association Summary . . . . .	31
Lab Chronicle . . . . .	32
Certification Summary . . . . .	34
Method Summary . . . . .	35
Sample Summary . . . . .	36
Chain of Custody . . . . .	37
Receipt Checklists . . . . .	38

# Definitions/Glossary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
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: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

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## Job ID: 320-101518-1

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### Laboratory: Eurofins Sacramento

#### Narrative

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#### Job Narrative 320-101518-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/15/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3° C.

#### LCMS

Method 537 (modified): Results for samples MW-01-202306 (320-101518-1), MW-02-202306 (320-101518-2), MW-04-202306 (320-101518-4) and DUP-09-202306 (320-101518-9) were reported from the analysis of a diluted extract due to high concentration. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: DUP-09-202306 (320-101518-9). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

#### Organic Prep

Method 3535: The following samples in preparation batch 320-688433 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. MW-05-202306 (320-101518-5) and PZ-01-202306 (320-101518-11)

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-688433.

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

# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

## Client Sample ID: MW-01-202306

## Lab Sample ID: 320-101518-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	240		22	11	ng/L	5		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1000		8.8	2.2	ng/L	5		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	570		8.8	2.6	ng/L	5		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	580		8.8	1.1	ng/L	5		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	140		8.8	3.8	ng/L	5		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	16		8.8	1.2	ng/L	5		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.6	J	8.8	1.4	ng/L	5		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.1	J	8.8	2.4	ng/L	5		537 (modified)	Total/NA
6:2 FTS	890		22	11	ng/L	5		537 (modified)	Total/NA
8:2 FTS	170		8.8	2.0	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MW-02-202306

## Lab Sample ID: 320-101518-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	260		22	11	ng/L	5		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1200		8.8	2.2	ng/L	5		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	670		8.8	2.6	ng/L	5		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	240		8.8	1.1	ng/L	5		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	150		8.8	3.7	ng/L	5		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.0	J	8.8	1.2	ng/L	5		537 (modified)	Total/NA
4:2 FTS	1.6	J	8.8	1.1	ng/L	5		537 (modified)	Total/NA
6:2 FTS	810		22	11	ng/L	5		537 (modified)	Total/NA
8:2 FTS	50		8.8	2.0	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MW-03-202306

## Lab Sample ID: 320-101518-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.3		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.70	J	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.37	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.79	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-04-202306

## Lab Sample ID: 320-101518-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	500		86	41	ng/L	20		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2300		34	8.4	ng/L	20		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1600		34	9.9	ng/L	20		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	880		34	4.3	ng/L	20		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1100		34	15	ng/L	20		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	83		34	4.6	ng/L	20		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	37		34	5.3	ng/L	20		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	29	J	34	9.3	ng/L	20		537 (modified)	Total/NA
4:2 FTS	46		34	4.1	ng/L	20		537 (modified)	Total/NA
6:2 FTS	5300		86	43	ng/L	20		537 (modified)	Total/NA
8:2 FTS	3500		34	7.9	ng/L	20		537 (modified)	Total/NA

## Client Sample ID: MW-05-202306

## Lab Sample ID: 320-101518-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	47		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	180		1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	120		1.8	0.51	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

## Client Sample ID: MW-05-202306 (Continued)

## Lab Sample ID: 320-101518-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	91		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	54		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.2		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.7	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.51	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.0		1.8	0.48	ng/L	1		537 (modified)	Total/NA
6:2 FTS	44		4.4	2.2	ng/L	1		537 (modified)	Total/NA
8:2 FTS	65		1.8	0.41	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-06-202306

## Lab Sample ID: 320-101518-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.9	J	4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.19	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
6:2 FTS	19		4.3	2.2	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-07-202306

## Lab Sample ID: 320-101518-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.2		1.7	0.17	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-08-202306

## Lab Sample ID: 320-101518-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.20	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.9		1.7	0.81	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: DUP-09-202306

## Lab Sample ID: 320-101518-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	480		84	41	ng/L	20		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2100		34	8.3	ng/L	20		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1700		34	9.8	ng/L	20		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	810		34	4.2	ng/L	20		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1000		34	14	ng/L	20		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	83		34	4.6	ng/L	20		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	33	J	34	5.2	ng/L	20		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	25	J	34	9.1	ng/L	20		537 (modified)	Total/NA
4:2 FTS	50		34	4.1	ng/L	20		537 (modified)	Total/NA
6:2 FTS	5200		84	42	ng/L	20		537 (modified)	Total/NA
8:2 FTS	3400		34	7.8	ng/L	20		537 (modified)	Total/NA

## Client Sample ID: EB-09-202306

## Lab Sample ID: 320-101518-10

No Detections.

## Client Sample ID: PZ-01-202306

## Lab Sample ID: 320-101518-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 FTS	2.5	J	4.4	2.2	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-01-202306**

**Lab Sample ID: 320-101518-1**

Date Collected: 06/14/23 09:13

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	240		22	11	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluoropentanoic acid (PFPeA)	1000		8.8	2.2	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorohexanoic acid (PFHxA)	570		8.8	2.6	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluoroheptanoic acid (PFHpA)	580		8.8	1.1	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorooctanoic acid (PFOA)	140		8.8	3.8	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorononanoic acid (PFNA)	16		8.8	1.2	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorodecanoic acid (PFDA)	1.6	J	8.8	1.4	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluoroundecanoic acid (PFUnA)	<4.9		8.8	4.9	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorododecanoic acid (PFDoA)	<2.4		8.8	2.4	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorotridecanoic acid (PFTrDA)	<5.7		8.8	5.7	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorotetradecanoic acid (PFTeA)	<3.2		8.8	3.2	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorobutanesulfonic acid (PFBS)	<0.88		8.8	0.88	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluoropentanesulfonic acid (PFPeS)	<1.3		8.8	1.3	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorohexanesulfonic acid (PFHxS)	<2.5		8.8	2.5	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluoroheptanesulfonic acid (PFHpS)	<0.84		8.8	0.84	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorooctanesulfonic acid (PFOS)	4.1	J	8.8	2.4	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorononanesulfonic acid (PFNS)	<1.6		8.8	1.6	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorodecanesulfonic acid (PFDS)	<1.4		8.8	1.4	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorododecanesulfonic acid (PFDoS)	<4.3		8.8	4.3	ng/L		07/06/23 11:34	07/12/23 23:55	5
Perfluorooctanesulfonamide (FOSA)	<4.3		8.8	4.3	ng/L		07/06/23 11:34	07/12/23 23:55	5
NEtFOSA	<3.8		8.8	3.8	ng/L		07/06/23 11:34	07/12/23 23:55	5
NMeFOSA	<1.9		8.8	1.9	ng/L		07/06/23 11:34	07/12/23 23:55	5
NMeFOSAA	<5.3		22	5.3	ng/L		07/06/23 11:34	07/12/23 23:55	5
NEtFOSAA	<5.7		22	5.7	ng/L		07/06/23 11:34	07/12/23 23:55	5
NMeFOSE	<6.2		18	6.2	ng/L		07/06/23 11:34	07/12/23 23:55	5
NEtFOSE	<3.8		8.8	3.8	ng/L		07/06/23 11:34	07/12/23 23:55	5
4:2 FTS	<1.1		8.8	1.1	ng/L		07/06/23 11:34	07/12/23 23:55	5
6:2 FTS	890		22	11	ng/L		07/06/23 11:34	07/12/23 23:55	5
8:2 FTS	170		8.8	2.0	ng/L		07/06/23 11:34	07/12/23 23:55	5
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		8.8	1.8	ng/L		07/06/23 11:34	07/12/23 23:55	5
HFPO-DA (GenX)	<6.6		18	6.6	ng/L		07/06/23 11:34	07/12/23 23:55	5
9Cl-PF3ONS	<1.1		8.8	1.1	ng/L		07/06/23 11:34	07/12/23 23:55	5
11Cl-PF3OUdS	<1.4		8.8	1.4	ng/L		07/06/23 11:34	07/12/23 23:55	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	88		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C5 PFPeA	86		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C2 PFHxA	89		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C4 PFHpA	92		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C4 PFOA	100		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C5 PFNA	96		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C2 PFDA	92		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C2 PFUnA	88		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C2 PFDoA	83		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C2 PFTeDA	85		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C3 PFBS	88		25 - 150	07/06/23 11:34	07/12/23 23:55	5

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-01-202306**

**Lab Sample ID: 320-101518-1**

Date Collected: 06/14/23 09:13

Matrix: Water

Date Received: 06/15/23 09:10

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	91		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C4 PFOS	87		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C8 FOSA	96		10 - 150	07/06/23 11:34	07/12/23 23:55	5
d3-NMeFOSAA	77		25 - 150	07/06/23 11:34	07/12/23 23:55	5
d5-NEtFOSAA	77		25 - 150	07/06/23 11:34	07/12/23 23:55	5
d-N-MeFOSA-M	71		10 - 150	07/06/23 11:34	07/12/23 23:55	5
d-N-EtFOSA-M	71		10 - 150	07/06/23 11:34	07/12/23 23:55	5
d7-N-MeFOSE-M	78		10 - 150	07/06/23 11:34	07/12/23 23:55	5
d9-N-EtFOSE-M	73		10 - 150	07/06/23 11:34	07/12/23 23:55	5
M2-4:2 FTS	92		25 - 150	07/06/23 11:34	07/12/23 23:55	5
M2-6:2 FTS	95		25 - 150	07/06/23 11:34	07/12/23 23:55	5
M2-8:2 FTS	101		25 - 150	07/06/23 11:34	07/12/23 23:55	5
13C3 HFPO-DA	88		25 - 150	07/06/23 11:34	07/12/23 23:55	5

**Client Sample ID: MW-02-202306**

**Lab Sample ID: 320-101518-2**

Date Collected: 06/14/23 13:34

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	260		22	11	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluoropentanoic acid (PFPeA)	1200		8.8	2.2	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorohexanoic acid (PFHxA)	670		8.8	2.6	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluoroheptanoic acid (PFHpA)	240		8.8	1.1	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorooctanoic acid (PFOA)	150		8.8	3.7	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorononanoic acid (PFNA)	8.0	J	8.8	1.2	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorodecanoic acid (PFDA)	<1.4		8.8	1.4	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluoroundecanoic acid (PFUnA)	<4.8		8.8	4.8	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorododecanoic acid (PFDoA)	<2.4		8.8	2.4	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorotridecanoic acid (PFTrDA)	<5.7		8.8	5.7	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorotetradecanoic acid (PFTeA)	<3.2		8.8	3.2	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorobutanesulfonic acid (PFBS)	<0.88		8.8	0.88	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluoropentanesulfonic acid (PFPeS)	<1.3		8.8	1.3	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorohexanesulfonic acid (PFHxS)	<2.5		8.8	2.5	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluoroheptanesulfonic acid (PFHpS)	<0.84		8.8	0.84	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorooctanesulfonic acid (PFOS)	<2.4		8.8	2.4	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorononanesulfonic acid (PFNS)	<1.6		8.8	1.6	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorodecanesulfonic acid (PFDS)	<1.4		8.8	1.4	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorododecanesulfonic acid (PFDoS)	<4.3		8.8	4.3	ng/L		07/06/23 11:34	07/13/23 00:07	5
Perfluorooctanesulfonamide (FOSA)	<4.3		8.8	4.3	ng/L		07/06/23 11:34	07/13/23 00:07	5
NEtFOSA	<3.8		8.8	3.8	ng/L		07/06/23 11:34	07/13/23 00:07	5
NMeFOSA	<1.9		8.8	1.9	ng/L		07/06/23 11:34	07/13/23 00:07	5
NMeFOSAA	<5.3		22	5.3	ng/L		07/06/23 11:34	07/13/23 00:07	5
NEtFOSAA	<5.7		22	5.7	ng/L		07/06/23 11:34	07/13/23 00:07	5
NMeFOSE	<6.2		18	6.2	ng/L		07/06/23 11:34	07/13/23 00:07	5
NEtFOSE	<3.7		8.8	3.7	ng/L		07/06/23 11:34	07/13/23 00:07	5
4:2 FTS	1.6	J	8.8	1.1	ng/L		07/06/23 11:34	07/13/23 00:07	5
6:2 FTS	810		22	11	ng/L		07/06/23 11:34	07/13/23 00:07	5

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-02-202306**

**Lab Sample ID: 320-101518-2**

Date Collected: 06/14/23 13:34

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>8:2 FTS</b>	<b>50</b>		8.8	2.0	ng/L		07/06/23 11:34	07/13/23 00:07	5
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		8.8	1.8	ng/L		07/06/23 11:34	07/13/23 00:07	5
HFPO-DA (GenX)	<6.6		18	6.6	ng/L		07/06/23 11:34	07/13/23 00:07	5
9CI-PF3ONS	<1.1		8.8	1.1	ng/L		07/06/23 11:34	07/13/23 00:07	5
11CI-PF3OUdS	<1.4		8.8	1.4	ng/L		07/06/23 11:34	07/13/23 00:07	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	105		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C5 PFPeA	104		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C2 PFHxA	108		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C4 PFHpA	112		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C4 PFOA	114		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C5 PFNA	110		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C2 PFDA	109		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C2 PFUnA	98		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C2 PFDoA	84		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C2 PFTeDA	74		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C3 PFBS	96		25 - 150				07/06/23 11:34	07/13/23 00:07	5
18O2 PFHxS	93		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C4 PFOS	88		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C8 FOSA	112		10 - 150				07/06/23 11:34	07/13/23 00:07	5
d3-NMeFOSAA	86		25 - 150				07/06/23 11:34	07/13/23 00:07	5
d5-NEtFOSAA	77		25 - 150				07/06/23 11:34	07/13/23 00:07	5
d-N-MeFOSA-M	76		10 - 150				07/06/23 11:34	07/13/23 00:07	5
d-N-EtFOSA-M	67		10 - 150				07/06/23 11:34	07/13/23 00:07	5
d7-N-MeFOSE-M	71		10 - 150				07/06/23 11:34	07/13/23 00:07	5
d9-N-EtFOSE-M	69		10 - 150				07/06/23 11:34	07/13/23 00:07	5
M2-4:2 FTS	103		25 - 150				07/06/23 11:34	07/13/23 00:07	5
M2-6:2 FTS	117		25 - 150				07/06/23 11:34	07/13/23 00:07	5
M2-8:2 FTS	105		25 - 150				07/06/23 11:34	07/13/23 00:07	5
13C3 HFPO-DA	104		25 - 150				07/06/23 11:34	07/13/23 00:07	5

**Client Sample ID: MW-03-202306**

**Lab Sample ID: 320-101518-3**

Date Collected: 06/13/23 15:51

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>6.3</b>		4.3	2.1	ng/L		07/06/23 11:34	07/12/23 22:15	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>0.70</b>	<b>J</b>	1.7	0.42	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		07/06/23 11:34	07/12/23 22:15	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>0.37</b>	<b>J</b>	1.7	0.22	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.7	1.1	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		07/06/23 11:34	07/12/23 22:15	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-03-202306**

**Lab Sample ID: 320-101518-3**

Date Collected: 06/13/23 15:51

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.79</b>	<b>J</b>	1.7	0.17	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.7	0.47	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		07/06/23 11:34	07/12/23 22:15	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		07/06/23 11:34	07/12/23 22:15	1
NEtFOSA	<0.75		1.7	0.75	ng/L		07/06/23 11:34	07/12/23 22:15	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/06/23 11:34	07/12/23 22:15	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		07/06/23 11:34	07/12/23 22:15	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		07/06/23 11:34	07/12/23 22:15	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/06/23 11:34	07/12/23 22:15	1
NEtFOSE	<0.73		1.7	0.73	ng/L		07/06/23 11:34	07/12/23 22:15	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/06/23 11:34	07/12/23 22:15	1
6:2 FTS	<2.2		4.3	2.2	ng/L		07/06/23 11:34	07/12/23 22:15	1
8:2 FTS	<0.40		1.7	0.40	ng/L		07/06/23 11:34	07/12/23 22:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		07/06/23 11:34	07/12/23 22:15	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/06/23 11:34	07/12/23 22:15	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/06/23 11:34	07/12/23 22:15	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		07/06/23 11:34	07/12/23 22:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C5 PFPeA	104		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C2 PFHxA	103		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C4 PFHpA	107		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C4 PFOA	105		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C5 PFNA	105		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C2 PFDA	107		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C2 PFUnA	99		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C2 PFDoA	92		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C2 PFTeDA	85		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C3 PFBS	94		25 - 150	07/06/23 11:34	07/12/23 22:15	1
18O2 PFHxS	93		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C4 PFOS	91		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C8 FOSA	104		10 - 150	07/06/23 11:34	07/12/23 22:15	1
d3-NMeFOSAA	85		25 - 150	07/06/23 11:34	07/12/23 22:15	1
d5-NEtFOSAA	86		25 - 150	07/06/23 11:34	07/12/23 22:15	1
d-N-MeFOSA-M	71		10 - 150	07/06/23 11:34	07/12/23 22:15	1
d-N-EtFOSA-M	69		10 - 150	07/06/23 11:34	07/12/23 22:15	1
d7-N-MeFOSE-M	80		10 - 150	07/06/23 11:34	07/12/23 22:15	1
d9-N-EtFOSE-M	81		10 - 150	07/06/23 11:34	07/12/23 22:15	1
M2-4:2 FTS	101		25 - 150	07/06/23 11:34	07/12/23 22:15	1
M2-6:2 FTS	100		25 - 150	07/06/23 11:34	07/12/23 22:15	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-03-202306**

**Lab Sample ID: 320-101518-3**

Date Collected: 06/13/23 15:51

Matrix: Water

Date Received: 06/15/23 09:10

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	105		25 - 150	07/06/23 11:34	07/12/23 22:15	1
13C3 HFPO-DA	104		25 - 150	07/06/23 11:34	07/12/23 22:15	1

**Client Sample ID: MW-04-202306**

**Lab Sample ID: 320-101518-4**

Date Collected: 06/14/23 14:56

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	500		86	41	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluoropentanoic acid (PFPeA)	2300		34	8.4	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorohexanoic acid (PFHxA)	1600		34	9.9	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluoroheptanoic acid (PFHpA)	880		34	4.3	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorooctanoic acid (PFOA)	1100		34	15	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorononanoic acid (PFNA)	83		34	4.6	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorodecanoic acid (PFDA)	37		34	5.3	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluoroundecanoic acid (PFUnA)	<19		34	19	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorododecanoic acid (PFDoA)	<9.4		34	9.4	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorotridecanoic acid (PFTTrDA)	<22		34	22	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorotetradecanoic acid (PFTeA)	<13		34	13	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorobutanesulfonic acid (PFBS)	<3.4		34	3.4	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluoropentanesulfonic acid (PFPeS)	<5.1		34	5.1	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorohexanesulfonic acid (PFHxS)	<9.8		34	9.8	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluoroheptanesulfonic acid (PFHpS)	<3.3		34	3.3	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorooctanesulfonic acid (PFOS)	29 J		34	9.3	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorononanesulfonic acid (PFNS)	<6.3		34	6.3	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorodecanesulfonic acid (PFDS)	<5.5		34	5.5	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorododecanesulfonic acid (PFDoS)	<17		34	17	ng/L		07/06/23 11:34	07/13/23 00:18	20
Perfluorooctanesulfonamide (FOSA)	<17		34	17	ng/L		07/06/23 11:34	07/13/23 00:18	20
NEtFOSA	<15		34	15	ng/L		07/06/23 11:34	07/13/23 00:18	20
NMeFOSA	<7.4		34	7.4	ng/L		07/06/23 11:34	07/13/23 00:18	20
NMeFOSAA	<21		86	21	ng/L		07/06/23 11:34	07/13/23 00:18	20
NEtFOSAA	<22		86	22	ng/L		07/06/23 11:34	07/13/23 00:18	20
NMeFOSE	<24		69	24	ng/L		07/06/23 11:34	07/13/23 00:18	20
NEtFOSE	<15		34	15	ng/L		07/06/23 11:34	07/13/23 00:18	20
4:2 FTS	46		34	4.1	ng/L		07/06/23 11:34	07/13/23 00:18	20
6:2 FTS	5300		86	43	ng/L		07/06/23 11:34	07/13/23 00:18	20
8:2 FTS	3500		34	7.9	ng/L		07/06/23 11:34	07/13/23 00:18	20
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<6.9		34	6.9	ng/L		07/06/23 11:34	07/13/23 00:18	20
HFPO-DA (GenX)	<26		69	26	ng/L		07/06/23 11:34	07/13/23 00:18	20
9Cl-PF3ONS	<4.1		34	4.1	ng/L		07/06/23 11:34	07/13/23 00:18	20
11Cl-PF3OUdS	<5.5		34	5.5	ng/L		07/06/23 11:34	07/13/23 00:18	20
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	70		25 - 150	07/06/23 11:34	07/13/23 00:18	20			
13C5 PFPeA	70		25 - 150	07/06/23 11:34	07/13/23 00:18	20			
13C2 PFHxA	77		25 - 150	07/06/23 11:34	07/13/23 00:18	20			

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-04-202306**

**Lab Sample ID: 320-101518-4**

Date Collected: 06/14/23 14:56

Matrix: Water

Date Received: 06/15/23 09:10

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	79		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C4 PFOA	74		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C5 PFNA	75		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C2 PFDA	74		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C2 PFUnA	69		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C2 PFDoA	70		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C2 PFTeDA	68		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C3 PFBS	71		25 - 150	07/06/23 11:34	07/13/23 00:18	20
18O2 PFHxS	78		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C4 PFOS	75		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C8 FOSA	76		10 - 150	07/06/23 11:34	07/13/23 00:18	20
d3-NMeFOSAA	59		25 - 150	07/06/23 11:34	07/13/23 00:18	20
d5-NEtFOSAA	64		25 - 150	07/06/23 11:34	07/13/23 00:18	20
d-N-MeFOSA-M	60		10 - 150	07/06/23 11:34	07/13/23 00:18	20
d-N-EtFOSA-M	57		10 - 150	07/06/23 11:34	07/13/23 00:18	20
d7-N-MeFOSE-M	57		10 - 150	07/06/23 11:34	07/13/23 00:18	20
d9-N-EtFOSE-M	56		10 - 150	07/06/23 11:34	07/13/23 00:18	20
M2-4:2 FTS	80		25 - 150	07/06/23 11:34	07/13/23 00:18	20
M2-6:2 FTS	135		25 - 150	07/06/23 11:34	07/13/23 00:18	20
M2-8:2 FTS	131		25 - 150	07/06/23 11:34	07/13/23 00:18	20
13C3 HFPO-DA	68		25 - 150	07/06/23 11:34	07/13/23 00:18	20

**Client Sample ID: MW-05-202306**

**Lab Sample ID: 320-101518-5**

Date Collected: 06/14/23 12:21

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	47		4.4	2.1	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluoropentanoic acid (PFPeA)	180		1.8	0.43	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorohexanoic acid (PFHxA)	120		1.8	0.51	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluoroheptanoic acid (PFHpA)	91		1.8	0.22	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorooctanoic acid (PFOA)	54		1.8	0.75	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorononanoic acid (PFNA)	5.2		1.8	0.24	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorodecanoic acid (PFDA)	1.7 J		1.8	0.27	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.8	0.48	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.8	1.1	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorobutanesulfonic acid (PFBS)	0.51 J		1.8	0.18	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.8	0.26	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.8	0.50	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorooctanesulfonic acid (PFOS)	3.0		1.8	0.48	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/06/23 11:34	07/12/23 22:26	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-05-202306**

**Lab Sample ID: 320-101518-5**

Date Collected: 06/14/23 12:21

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.8	0.85	ng/L		07/06/23 11:34	07/12/23 22:26	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		07/06/23 11:34	07/12/23 22:26	1
NEtFOSA	<0.77		1.8	0.77	ng/L		07/06/23 11:34	07/12/23 22:26	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/06/23 11:34	07/12/23 22:26	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/06/23 11:34	07/12/23 22:26	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/06/23 11:34	07/12/23 22:26	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/06/23 11:34	07/12/23 22:26	1
NEtFOSE	<0.75		1.8	0.75	ng/L		07/06/23 11:34	07/12/23 22:26	1
4:2 FTS	<0.21		1.8	0.21	ng/L		07/06/23 11:34	07/12/23 22:26	1
<b>6:2 FTS</b>	<b>44</b>		4.4	2.2	ng/L		07/06/23 11:34	07/12/23 22:26	1
<b>8:2 FTS</b>	<b>65</b>		1.8	0.41	ng/L		07/06/23 11:34	07/12/23 22:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		07/06/23 11:34	07/12/23 22:26	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/06/23 11:34	07/12/23 22:26	1
9CI-PF3ONS	<0.21		1.8	0.21	ng/L		07/06/23 11:34	07/12/23 22:26	1
11CI-PF3OUdS	<0.28		1.8	0.28	ng/L		07/06/23 11:34	07/12/23 22:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C5 PFPeA	105		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C2 PFHxA	103		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C4 PFHpA	115		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C4 PFOA	108		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C5 PFNA	111		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C2 PFDA	109		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C2 PFUnA	105		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C2 PFDoA	96		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C2 PFTeDA	93		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C3 PFBS	97		25 - 150	07/06/23 11:34	07/12/23 22:26	1
18O2 PFHxS	104		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C4 PFOS	104		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C8 FOSA	112		10 - 150	07/06/23 11:34	07/12/23 22:26	1
d3-NMeFOSAA	94		25 - 150	07/06/23 11:34	07/12/23 22:26	1
d5-NEtFOSAA	92		25 - 150	07/06/23 11:34	07/12/23 22:26	1
d-N-MeFOSA-M	81		10 - 150	07/06/23 11:34	07/12/23 22:26	1
d-N-EtFOSA-M	79		10 - 150	07/06/23 11:34	07/12/23 22:26	1
d7-N-MeFOSE-M	81		10 - 150	07/06/23 11:34	07/12/23 22:26	1
d9-N-EtFOSE-M	86		10 - 150	07/06/23 11:34	07/12/23 22:26	1
M2-4:2 FTS	104		25 - 150	07/06/23 11:34	07/12/23 22:26	1
M2-6:2 FTS	120		25 - 150	07/06/23 11:34	07/12/23 22:26	1
M2-8:2 FTS	113		25 - 150	07/06/23 11:34	07/12/23 22:26	1
13C3 HFPO-DA	103		25 - 150	07/06/23 11:34	07/12/23 22:26	1

**Client Sample ID: MW-06-202306**

**Lab Sample ID: 320-101518-6**

Date Collected: 06/13/23 14:31

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.9	J	4.3	2.1	ng/L		07/06/23 11:34	07/12/23 22:37	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-06-202306**

**Lab Sample ID: 320-101518-6**

Date Collected: 06/13/23 14:31

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.7	0.22	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		07/06/23 11:34	07/12/23 22:37	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>1.2</b>	<b>J</b>	1.7	0.17	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		07/06/23 11:34	07/12/23 22:37	1
<b>Perfluoroheptanesulfonic acid (PFHpS)</b>	<b>0.19</b>	<b>J</b>	1.7	0.16	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.7	0.47	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		07/06/23 11:34	07/12/23 22:37	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		07/06/23 11:34	07/12/23 22:37	1
NEtFOSA	<0.75		1.7	0.75	ng/L		07/06/23 11:34	07/12/23 22:37	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/06/23 11:34	07/12/23 22:37	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		07/06/23 11:34	07/12/23 22:37	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		07/06/23 11:34	07/12/23 22:37	1
NMeFOSE	<1.2		3.4	1.2	ng/L		07/06/23 11:34	07/12/23 22:37	1
NEtFOSE	<0.73		1.7	0.73	ng/L		07/06/23 11:34	07/12/23 22:37	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/06/23 11:34	07/12/23 22:37	1
<b>6:2 FTS</b>	<b>19</b>		4.3	2.2	ng/L		07/06/23 11:34	07/12/23 22:37	1
8:2 FTS	<0.40		1.7	0.40	ng/L		07/06/23 11:34	07/12/23 22:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		07/06/23 11:34	07/12/23 22:37	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		07/06/23 11:34	07/12/23 22:37	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/06/23 11:34	07/12/23 22:37	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		07/06/23 11:34	07/12/23 22:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	134		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C5 PFPeA	144		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C2 PFHxA	138		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C4 PFHpA	150		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C4 PFOA	140		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C5 PFNA	139		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C2 PFDA	144		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C2 PFUnA	129		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C2 PFDoA	119		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C2 PFTeDA	110		25 - 150				07/06/23 11:34	07/12/23 22:37	1
13C3 PFBS	131		25 - 150				07/06/23 11:34	07/12/23 22:37	1
18O2 PFHxS	128		25 - 150				07/06/23 11:34	07/12/23 22:37	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-06-202306**

**Lab Sample ID: 320-101518-6**

Date Collected: 06/13/23 14:31

Matrix: Water

Date Received: 06/15/23 09:10

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	131		25 - 150	07/06/23 11:34	07/12/23 22:37	1
13C8 FOSA	142		10 - 150	07/06/23 11:34	07/12/23 22:37	1
d3-NMeFOSAA	111		25 - 150	07/06/23 11:34	07/12/23 22:37	1
d5-NEtFOSAA	116		25 - 150	07/06/23 11:34	07/12/23 22:37	1
d-N-MeFOSA-M	106		10 - 150	07/06/23 11:34	07/12/23 22:37	1
d-N-EtFOSA-M	104		10 - 150	07/06/23 11:34	07/12/23 22:37	1
d7-N-MeFOSE-M	99		10 - 150	07/06/23 11:34	07/12/23 22:37	1
d9-N-EtFOSE-M	104		10 - 150	07/06/23 11:34	07/12/23 22:37	1
M2-4:2 FTS	134		25 - 150	07/06/23 11:34	07/12/23 22:37	1
M2-6:2 FTS	134		25 - 150	07/06/23 11:34	07/12/23 22:37	1
M2-8:2 FTS	144		25 - 150	07/06/23 11:34	07/12/23 22:37	1
13C3 HFPO-DA	132		25 - 150	07/06/23 11:34	07/12/23 22:37	1

**Client Sample ID: MW-07-202306**

**Lab Sample ID: 320-101518-7**

Date Collected: 06/13/23 13:02

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.3	2.1	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.7	0.22	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorooctanoic acid (PFOA)	<0.74		1.7	0.74	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		07/06/23 11:34	07/12/23 22:48	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>4.2</b>		1.7	0.17	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.7	0.47	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		07/06/23 11:34	07/12/23 22:48	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		07/06/23 11:34	07/12/23 22:48	1
NEtFOSA	<0.75		1.7	0.75	ng/L		07/06/23 11:34	07/12/23 22:48	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/06/23 11:34	07/12/23 22:48	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		07/06/23 11:34	07/12/23 22:48	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		07/06/23 11:34	07/12/23 22:48	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/06/23 11:34	07/12/23 22:48	1
NEtFOSE	<0.74		1.7	0.74	ng/L		07/06/23 11:34	07/12/23 22:48	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/06/23 11:34	07/12/23 22:48	1
6:2 FTS	<2.2		4.3	2.2	ng/L		07/06/23 11:34	07/12/23 22:48	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-07-202306**

**Lab Sample ID: 320-101518-7**

**Date Collected: 06/13/23 13:02**

**Matrix: Water**

**Date Received: 06/15/23 09:10**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	<0.40		1.7	0.40	ng/L		07/06/23 11:34	07/12/23 22:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		07/06/23 11:34	07/12/23 22:48	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/06/23 11:34	07/12/23 22:48	1
9CI-PF3ONS	<0.21		1.7	0.21	ng/L		07/06/23 11:34	07/12/23 22:48	1
11CI-PF3OUdS	<0.28		1.7	0.28	ng/L		07/06/23 11:34	07/12/23 22:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	86		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C5 PFPeA	88		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C2 PFHxA	88		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C4 PFHpA	93		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C4 PFOA	93		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C5 PFNA	91		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C2 PFDA	89		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C2 PFUnA	90		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C2 PFDoA	86		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C2 PFTeDA	81		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C3 PFBS	87		25 - 150				07/06/23 11:34	07/12/23 22:48	1
18O2 PFHxS	88		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C4 PFOS	85		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C8 FOSA	96		10 - 150				07/06/23 11:34	07/12/23 22:48	1
d3-NMeFOSAA	69		25 - 150				07/06/23 11:34	07/12/23 22:48	1
d5-NEtFOSAA	78		25 - 150				07/06/23 11:34	07/12/23 22:48	1
d-N-MeFOSA-M	68		10 - 150				07/06/23 11:34	07/12/23 22:48	1
d-N-EtFOSA-M	62		10 - 150				07/06/23 11:34	07/12/23 22:48	1
d7-N-MeFOSE-M	70		10 - 150				07/06/23 11:34	07/12/23 22:48	1
d9-N-EtFOSE-M	74		10 - 150				07/06/23 11:34	07/12/23 22:48	1
M2-4:2 FTS	80		25 - 150				07/06/23 11:34	07/12/23 22:48	1
M2-6:2 FTS	95		25 - 150				07/06/23 11:34	07/12/23 22:48	1
M2-8:2 FTS	95		25 - 150				07/06/23 11:34	07/12/23 22:48	1
13C3 HFPO-DA	94		25 - 150				07/06/23 11:34	07/12/23 22:48	1

**Client Sample ID: MW-08-202306**

**Lab Sample ID: 320-101518-8**

**Date Collected: 06/13/23 11:27**

**Matrix: Water**

**Date Received: 06/15/23 09:10**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.2	2.0	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluoropentanoic acid (PFPeA)	<0.41		1.7	0.41	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorohexanoic acid (PFHxA)	<0.48		1.7	0.48	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorooctanoic acid (PFOA)	<0.71		1.7	0.71	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorononanoic acid (PFNA)	<0.22		1.7	0.22	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluoroundecanoic acid (PFUnA)	<0.91		1.7	0.91	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorododecanoic acid (PFDoA)	<0.46		1.7	0.46	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.7	1.1	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.61		1.7	0.61	ng/L		07/06/23 11:34	07/12/23 23:00	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-08-202306**

**Lab Sample ID: 320-101518-8**

Date Collected: 06/13/23 11:27

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.20</b>	<b>J</b>	1.7	0.17	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorohexanesulfonic acid (PFHxS)	<0.47		1.7	0.47	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorooctanesulfonic acid (PFOS)	<0.45		1.7	0.45	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		07/06/23 11:34	07/12/23 23:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.81		1.7	0.81	ng/L		07/06/23 11:34	07/12/23 23:00	1
<b>Perfluorooctanesulfonamide (FOSA)</b>	<b>1.9</b>		1.7	0.81	ng/L		07/06/23 11:34	07/12/23 23:00	1
NEtFOSA	<0.72		1.7	0.72	ng/L		07/06/23 11:34	07/12/23 23:00	1
NMeFOSA	<0.36		1.7	0.36	ng/L		07/06/23 11:34	07/12/23 23:00	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		07/06/23 11:34	07/12/23 23:00	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		07/06/23 11:34	07/12/23 23:00	1
NMeFOSE	<1.2		3.3	1.2	ng/L		07/06/23 11:34	07/12/23 23:00	1
NEtFOSE	<0.71		1.7	0.71	ng/L		07/06/23 11:34	07/12/23 23:00	1
4:2 FTS	<0.20		1.7	0.20	ng/L		07/06/23 11:34	07/12/23 23:00	1
6:2 FTS	<2.1		4.2	2.1	ng/L		07/06/23 11:34	07/12/23 23:00	1
8:2 FTS	<0.38		1.7	0.38	ng/L		07/06/23 11:34	07/12/23 23:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.33		1.7	0.33	ng/L		07/06/23 11:34	07/12/23 23:00	1
HFPO-DA (GenX)	<1.2		3.3	1.2	ng/L		07/06/23 11:34	07/12/23 23:00	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		07/06/23 11:34	07/12/23 23:00	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		07/06/23 11:34	07/12/23 23:00	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	105		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C5 PFPeA	107		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C2 PFHxA	107		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C4 PFHpA	111		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C4 PFOA	112		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C5 PFNA	107		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C2 PFDA	107		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C2 PFUnA	106		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C2 PFDoA	95		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C2 PFTeDA	93		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C3 PFBS	100		25 - 150				07/06/23 11:34	07/12/23 23:00	1
18O2 PFHxS	99		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C4 PFOS	96		25 - 150				07/06/23 11:34	07/12/23 23:00	1
13C8 FOSA	106		10 - 150				07/06/23 11:34	07/12/23 23:00	1
d3-NMeFOSAA	88		25 - 150				07/06/23 11:34	07/12/23 23:00	1
d5-NEtFOSAA	89		25 - 150				07/06/23 11:34	07/12/23 23:00	1
d-N-MeFOSA-M	72		10 - 150				07/06/23 11:34	07/12/23 23:00	1
d-N-EtFOSA-M	68		10 - 150				07/06/23 11:34	07/12/23 23:00	1
d7-N-MeFOSE-M	86		10 - 150				07/06/23 11:34	07/12/23 23:00	1
d9-N-EtFOSE-M	85		10 - 150				07/06/23 11:34	07/12/23 23:00	1
M2-4:2 FTS	99		25 - 150				07/06/23 11:34	07/12/23 23:00	1
M2-6:2 FTS	99		25 - 150				07/06/23 11:34	07/12/23 23:00	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-08-202306**

**Lab Sample ID: 320-101518-8**

Date Collected: 06/13/23 11:27

Matrix: Water

Date Received: 06/15/23 09:10

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	102		25 - 150	07/06/23 11:34	07/12/23 23:00	1
13C3 HFPO-DA	99		25 - 150	07/06/23 11:34	07/12/23 23:00	1

**Client Sample ID: DUP-09-202306**

**Lab Sample ID: 320-101518-9**

Date Collected: 06/14/23 00:00

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	480		84	41	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluoropentanoic acid (PFPeA)	2100		34	8.3	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorohexanoic acid (PFHxA)	1700		34	9.8	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluoroheptanoic acid (PFHpA)	810		34	4.2	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorooctanoic acid (PFOA)	1000		34	14	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorononanoic acid (PFNA)	83		34	4.6	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorodecanoic acid (PFDA)	33	J	34	5.2	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluoroundecanoic acid (PFUnA)	<19		34	19	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorododecanoic acid (PFDoA)	<9.3		34	9.3	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorotridecanoic acid (PFTTrDA)	<22		34	22	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorotetradecanoic acid (PFTeA)	<12		34	12	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorobutanesulfonic acid (PFBS)	<3.4		34	3.4	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluoropentanesulfonic acid (PFPeS)	<5.1		34	5.1	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorohexanesulfonic acid (PFHxS)	<9.6		34	9.6	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluoroheptanesulfonic acid (PFHpS)	<3.2		34	3.2	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorooctanesulfonic acid (PFOS)	25	J	34	9.1	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorononanesulfonic acid (PFNS)	<6.2		34	6.2	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorodecanesulfonic acid (PFDS)	<5.4		34	5.4	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorododecanesulfonic acid (PFDoS)	<16		34	16	ng/L		07/06/23 11:34	07/13/23 00:29	20
Perfluorooctanesulfonamide (FOSA)	<17		34	17	ng/L		07/06/23 11:34	07/13/23 00:29	20
NEtFOSA	<15		34	15	ng/L		07/06/23 11:34	07/13/23 00:29	20
NMeFOSA	<7.3		34	7.3	ng/L		07/06/23 11:34	07/13/23 00:29	20
NMeFOSAA	<20		84	20	ng/L		07/06/23 11:34	07/13/23 00:29	20
NEtFOSAA	<22		84	22	ng/L		07/06/23 11:34	07/13/23 00:29	20
NMeFOSE	<24		68	24	ng/L		07/06/23 11:34	07/13/23 00:29	20
NEtFOSE	<14		34	14	ng/L		07/06/23 11:34	07/13/23 00:29	20
4:2 FTS	50		34	4.1	ng/L		07/06/23 11:34	07/13/23 00:29	20
6:2 FTS	5200		84	42	ng/L		07/06/23 11:34	07/13/23 00:29	20
8:2 FTS	3400		34	7.8	ng/L		07/06/23 11:34	07/13/23 00:29	20
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<6.8		34	6.8	ng/L		07/06/23 11:34	07/13/23 00:29	20
HFPO-DA (GenX)	<25		68	25	ng/L		07/06/23 11:34	07/13/23 00:29	20
9Cl-PF3ONS	<4.1		34	4.1	ng/L		07/06/23 11:34	07/13/23 00:29	20
11Cl-PF3OUdS	<5.4		34	5.4	ng/L		07/06/23 11:34	07/13/23 00:29	20

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	81		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C5 PFPeA	82		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C2 PFHxA	86		25 - 150	07/06/23 11:34	07/13/23 00:29	20

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: DUP-09-202306**

**Lab Sample ID: 320-101518-9**

Date Collected: 06/14/23 00:00

Matrix: Water

Date Received: 06/15/23 09:10

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	93		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C4 PFOA	90		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C5 PFNA	88		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C2 PFDA	95		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C2 PFUnA	91		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C2 PFDoA	81		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C2 PFTeDA	85		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C3 PFBS	81		25 - 150	07/06/23 11:34	07/13/23 00:29	20
18O2 PFHxS	84		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C4 PFOS	88		25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C8 FOSA	93		10 - 150	07/06/23 11:34	07/13/23 00:29	20
d3-NMeFOSAA	74		25 - 150	07/06/23 11:34	07/13/23 00:29	20
d5-NEtFOSAA	97		25 - 150	07/06/23 11:34	07/13/23 00:29	20
d-N-MeFOSA-M	66		10 - 150	07/06/23 11:34	07/13/23 00:29	20
d-N-EtFOSA-M	66		10 - 150	07/06/23 11:34	07/13/23 00:29	20
d7-N-MeFOSE-M	80		10 - 150	07/06/23 11:34	07/13/23 00:29	20
d9-N-EtFOSE-M	69		10 - 150	07/06/23 11:34	07/13/23 00:29	20
M2-4:2 FTS	82		25 - 150	07/06/23 11:34	07/13/23 00:29	20
M2-6:2 FTS	151	*5+	25 - 150	07/06/23 11:34	07/13/23 00:29	20
M2-8:2 FTS	158	*5+	25 - 150	07/06/23 11:34	07/13/23 00:29	20
13C3 HFPO-DA	71		25 - 150	07/06/23 11:34	07/13/23 00:29	20

**Client Sample ID: EB-09-202306**

**Lab Sample ID: 320-101518-10**

Date Collected: 06/14/23 14:30

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.8	0.43	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.8	0.51	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorooctanoic acid (PFOA)	<0.75		1.8	0.75	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.8	1.1	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.8	0.50	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		07/06/23 11:34	07/12/23 23:11	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		07/06/23 11:34	07/12/23 23:11	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: EB-09-202306**

**Lab Sample ID: 320-101518-10**

Date Collected: 06/14/23 14:30

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<0.77		1.8	0.77	ng/L		07/06/23 11:34	07/12/23 23:11	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/06/23 11:34	07/12/23 23:11	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/06/23 11:34	07/12/23 23:11	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/06/23 11:34	07/12/23 23:11	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/06/23 11:34	07/12/23 23:11	1
NEtFOSE	<0.75		1.8	0.75	ng/L		07/06/23 11:34	07/12/23 23:11	1
4:2 FTS	<0.21		1.8	0.21	ng/L		07/06/23 11:34	07/12/23 23:11	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/06/23 11:34	07/12/23 23:11	1
8:2 FTS	<0.41		1.8	0.41	ng/L		07/06/23 11:34	07/12/23 23:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		07/06/23 11:34	07/12/23 23:11	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/06/23 11:34	07/12/23 23:11	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		07/06/23 11:34	07/12/23 23:11	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		07/06/23 11:34	07/12/23 23:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C5 PFPeA	101		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C2 PFHxA	103		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C4 PFHpA	113		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C4 PFOA	105		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C5 PFNA	107		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C2 PFDA	111		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C2 PFUnA	108		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C2 PFDoA	94		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C2 PFTeDA	85		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C3 PFBS	98		25 - 150				07/06/23 11:34	07/12/23 23:11	1
18O2 PFHxS	100		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C4 PFOS	96		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C8 FOSA	95		10 - 150				07/06/23 11:34	07/12/23 23:11	1
d3-NMeFOSAA	85		25 - 150				07/06/23 11:34	07/12/23 23:11	1
d5-NEtFOSAA	88		25 - 150				07/06/23 11:34	07/12/23 23:11	1
d-N-MeFOSA-M	80		10 - 150				07/06/23 11:34	07/12/23 23:11	1
d-N-EtFOSA-M	77		10 - 150				07/06/23 11:34	07/12/23 23:11	1
d7-N-MeFOSE-M	81		10 - 150				07/06/23 11:34	07/12/23 23:11	1
d9-N-EtFOSE-M	80		10 - 150				07/06/23 11:34	07/12/23 23:11	1
M2-4:2 FTS	107		25 - 150				07/06/23 11:34	07/12/23 23:11	1
M2-6:2 FTS	102		25 - 150				07/06/23 11:34	07/12/23 23:11	1
M2-8:2 FTS	122		25 - 150				07/06/23 11:34	07/12/23 23:11	1
13C3 HFPO-DA	105		25 - 150				07/06/23 11:34	07/12/23 23:11	1

**Client Sample ID: PZ-01-202306**

**Lab Sample ID: 320-101518-11**

Date Collected: 06/14/23 10:32

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.8	0.43	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.8	0.51	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		07/06/23 11:34	07/12/23 23:44	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: PZ-01-202306**

**Lab Sample ID: 320-101518-11**

Date Collected: 06/14/23 10:32

Matrix: Water

Date Received: 06/15/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.75		1.8	0.75	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.8	0.48	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.8	1.1	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.8	0.26	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.8	0.50	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.8	0.47	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.8	0.85	ng/L		07/06/23 11:34	07/12/23 23:44	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		07/06/23 11:34	07/12/23 23:44	1
NEtFOSA	<0.77		1.8	0.77	ng/L		07/06/23 11:34	07/12/23 23:44	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/06/23 11:34	07/12/23 23:44	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/06/23 11:34	07/12/23 23:44	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/06/23 11:34	07/12/23 23:44	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/06/23 11:34	07/12/23 23:44	1
NEtFOSE	<0.75		1.8	0.75	ng/L		07/06/23 11:34	07/12/23 23:44	1
4:2 FTS	<0.21		1.8	0.21	ng/L		07/06/23 11:34	07/12/23 23:44	1
<b>6:2 FTS</b>	<b>2.5</b>	<b>J</b>	4.4	2.2	ng/L		07/06/23 11:34	07/12/23 23:44	1
8:2 FTS	<0.40		1.8	0.40	ng/L		07/06/23 11:34	07/12/23 23:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		07/06/23 11:34	07/12/23 23:44	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/06/23 11:34	07/12/23 23:44	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		07/06/23 11:34	07/12/23 23:44	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		07/06/23 11:34	07/12/23 23:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C5 PFPeA	104		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C2 PFHxA	101		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C4 PFHpA	103		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C4 PFOA	108		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C5 PFNA	110		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C2 PFDA	106		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C2 PFUnA	94		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C2 PFDoA	93		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C2 PFTeDA	86		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C3 PFBS	96		25 - 150	07/06/23 11:34	07/12/23 23:44	1
18O2 PFHxS	102		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C4 PFOS	100		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C8 FOSA	104		10 - 150	07/06/23 11:34	07/12/23 23:44	1
d3-NMeFOSAA	79		25 - 150	07/06/23 11:34	07/12/23 23:44	1
d5-NEtFOSAA	87		25 - 150	07/06/23 11:34	07/12/23 23:44	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: PZ-01-202306**

**Lab Sample ID: 320-101518-11**

**Date Collected: 06/14/23 10:32**

**Matrix: Water**

**Date Received: 06/15/23 09:10**

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d-N-MeFOSA-M	83		10 - 150	07/06/23 11:34	07/12/23 23:44	1
d-N-EtFOSA-M	78		10 - 150	07/06/23 11:34	07/12/23 23:44	1
d7-N-MeFOSE-M	81		10 - 150	07/06/23 11:34	07/12/23 23:44	1
d9-N-EtFOSE-M	83		10 - 150	07/06/23 11:34	07/12/23 23:44	1
M2-4:2 FTS	96		25 - 150	07/06/23 11:34	07/12/23 23:44	1
M2-6:2 FTS	108		25 - 150	07/06/23 11:34	07/12/23 23:44	1
M2-8:2 FTS	110		25 - 150	07/06/23 11:34	07/12/23 23:44	1
13C3 HFPO-DA	96		25 - 150	07/06/23 11:34	07/12/23 23:44	1

# Isotope Dilution Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-101518-1	MW-01-202306	88	86	89	92	100	96	92	88
320-101518-2	MW-02-202306	105	104	108	112	114	110	109	98
320-101518-3	MW-03-202306	100	104	103	107	105	105	107	99
320-101518-4	MW-04-202306	70	70	77	79	74	75	74	69
320-101518-5	MW-05-202306	103	105	103	115	108	111	109	105
320-101518-6	MW-06-202306	134	144	138	150	140	139	144	129
320-101518-7	MW-07-202306	86	88	88	93	93	91	89	90
320-101518-8	MW-08-202306	105	107	107	111	112	107	107	106
320-101518-9	DUP-09-202306	81	82	86	93	90	88	95	91
320-101518-10	EB-09-202306	100	101	103	113	105	107	111	108
320-101518-11	PZ-01-202306	100	104	101	103	108	110	106	94
LCS 320-688433/2-A	Lab Control Sample	99	99	100	107	104	107	106	105
LCS 320-688433/3-A	Lab Control Sample Dup	106	111	106	115	119	115	117	117
MB 320-688433/1-A	Method Blank	106	106	103	113	114	115	110	107

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-101518-1	MW-01-202306	83	85	88	91	87	96	77	77
320-101518-2	MW-02-202306	84	74	96	93	88	112	86	77
320-101518-3	MW-03-202306	92	85	94	93	91	104	85	86
320-101518-4	MW-04-202306	70	68	71	78	75	76	59	64
320-101518-5	MW-05-202306	96	93	97	104	104	112	94	92
320-101518-6	MW-06-202306	119	110	131	128	131	142	111	116
320-101518-7	MW-07-202306	86	81	87	88	85	96	69	78
320-101518-8	MW-08-202306	95	93	100	99	96	106	88	89
320-101518-9	DUP-09-202306	81	85	81	84	88	93	74	97
320-101518-10	EB-09-202306	94	85	98	100	96	95	85	88
320-101518-11	PZ-01-202306	93	86	96	102	100	104	79	87
LCS 320-688433/2-A	Lab Control Sample	97	91	93	98	100	89	87	85
LCS 320-688433/3-A	Lab Control Sample Dup	111	83	105	112	112	97	99	96
MB 320-688433/1-A	Method Blank	90	80	96	98	99	99	87	84

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
320-101518-1	MW-01-202306	71	71	78	73	92	95	101	88
320-101518-2	MW-02-202306	76	67	71	69	103	117	105	104
320-101518-3	MW-03-202306	71	69	80	81	101	100	105	104
320-101518-4	MW-04-202306	60	57	57	56	80	135	131	68
320-101518-5	MW-05-202306	81	79	81	86	104	120	113	103
320-101518-6	MW-06-202306	106	104	99	104	134	134	144	132
320-101518-7	MW-07-202306	68	62	70	74	80	95	95	94
320-101518-8	MW-08-202306	72	68	86	85	99	99	102	99
320-101518-9	DUP-09-202306	66	66	80	69	82	151 *5+	158 *5+	71
320-101518-10	EB-09-202306	80	77	81	80	107	102	122	105
320-101518-11	PZ-01-202306	83	78	81	83	96	108	110	96
LCS 320-688433/2-A	Lab Control Sample	72	73	85	83	102	97	105	104
LCS 320-688433/3-A	Lab Control Sample Dup	74	71	82	78	110	124	121	106
MB 320-688433/1-A	Method Blank	72	73	88	85	98	105	113	107

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# Isotope Dilution Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

## Surrogate Legend

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

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

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

**Lab Sample ID: MB 320-688433/1-A**  
**Matrix: Water**  
**Analysis Batch: 690092**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 688433**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		07/06/23 11:34	07/12/23 21:41	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		07/06/23 11:34	07/12/23 21:41	1
NEtFOSA	<0.87		2.0	0.87	ng/L		07/06/23 11:34	07/12/23 21:41	1
NMeFOSA	<0.43		2.0	0.43	ng/L		07/06/23 11:34	07/12/23 21:41	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		07/06/23 11:34	07/12/23 21:41	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		07/06/23 11:34	07/12/23 21:41	1
NMeFOSE	<1.4		4.0	1.4	ng/L		07/06/23 11:34	07/12/23 21:41	1
NEtFOSE	<0.85		2.0	0.85	ng/L		07/06/23 11:34	07/12/23 21:41	1
4:2 FTS	<0.24		2.0	0.24	ng/L		07/06/23 11:34	07/12/23 21:41	1
6:2 FTS	<2.5		5.0	2.5	ng/L		07/06/23 11:34	07/12/23 21:41	1
8:2 FTS	<0.46		2.0	0.46	ng/L		07/06/23 11:34	07/12/23 21:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		07/06/23 11:34	07/12/23 21:41	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		07/06/23 11:34	07/12/23 21:41	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		07/06/23 11:34	07/12/23 21:41	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		07/06/23 11:34	07/12/23 21:41	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	106		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C5 PFPeA	106		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C2 PFHxA	103		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C4 PFHpA	113		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C4 PFOA	114		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C5 PFNA	115		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C2 PFDA	110		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C2 PFUnA	107		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C2 PFDoA	90		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C2 PFTeDA	80		25 - 150	07/06/23 11:34	07/12/23 21:41	1

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

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

**Lab Sample ID: MB 320-688433/1-A**  
**Matrix: Water**  
**Analysis Batch: 690092**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 688433**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	96		25 - 150	07/06/23 11:34	07/12/23 21:41	1
18O2 PFHxS	98		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C4 PFOS	99		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C8 FOSA	99		10 - 150	07/06/23 11:34	07/12/23 21:41	1
d3-NMeFOSAA	87		25 - 150	07/06/23 11:34	07/12/23 21:41	1
d5-NEtFOSAA	84		25 - 150	07/06/23 11:34	07/12/23 21:41	1
d-N-MeFOSA-M	72		10 - 150	07/06/23 11:34	07/12/23 21:41	1
d-N-EtFOSA-M	73		10 - 150	07/06/23 11:34	07/12/23 21:41	1
d7-N-MeFOSE-M	88		10 - 150	07/06/23 11:34	07/12/23 21:41	1
d9-N-EtFOSE-M	85		10 - 150	07/06/23 11:34	07/12/23 21:41	1
M2-4:2 FTS	98		25 - 150	07/06/23 11:34	07/12/23 21:41	1
M2-6:2 FTS	105		25 - 150	07/06/23 11:34	07/12/23 21:41	1
M2-8:2 FTS	113		25 - 150	07/06/23 11:34	07/12/23 21:41	1
13C3 HFPO-DA	107		25 - 150	07/06/23 11:34	07/12/23 21:41	1

**Lab Sample ID: LCS 320-688433/2-A**  
**Matrix: Water**  
**Analysis Batch: 690092**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 688433**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	41.7		ng/L		104	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	40.3		ng/L		101	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.2		ng/L		103	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	41.8		ng/L		105	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	39.9		ng/L		100	60 - 135
Perfluorononanoic acid (PFNA)	40.0	39.7		ng/L		99	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	42.4		ng/L		106	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	38.8		ng/L		97	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	40.8		ng/L		102	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	37.8		ng/L		94	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.9		ng/L		92	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	34.8		ng/L		98	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	36.0		ng/L		96	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.0		ng/L		96	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.0		ng/L		97	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	35.5		ng/L		96	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	35.8		ng/L		93	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	34.6		ng/L		90	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	29.3		ng/L		75	60 - 135

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

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

**Lab Sample ID: LCS 320-688433/2-A**  
**Matrix: Water**  
**Analysis Batch: 690092**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 688433**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	41.1		ng/L		103	60 - 135
NEtFOSA	40.0	40.0		ng/L		100	60 - 135
NMeFOSA	40.0	42.4		ng/L		106	60 - 135
NMeFOSAA	40.0	41.1		ng/L		103	60 - 135
NEtFOSAA	40.0	39.1		ng/L		98	60 - 135
NMeFOSE	40.0	40.8		ng/L		102	60 - 135
NEtFOSE	40.0	39.6		ng/L		99	60 - 135
4:2 FTS	37.5	34.3		ng/L		92	60 - 135
6:2 FTS	38.1	40.1		ng/L		105	60 - 135
8:2 FTS	38.4	39.6		ng/L		103	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	40.6		ng/L		107	60 - 135
HFPO-DA (GenX)	40.0	39.0		ng/L		97	60 - 135
9Cl-PF3ONS	37.4	36.1		ng/L		97	60 - 135
11Cl-PF3OUdS	37.8	35.1		ng/L		93	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	99		25 - 150
13C5 PFPeA	99		25 - 150
13C2 PFHxA	100		25 - 150
13C4 PFHpA	107		25 - 150
13C4 PFOA	104		25 - 150
13C5 PFNA	107		25 - 150
13C2 PFDA	106		25 - 150
13C2 PFUnA	105		25 - 150
13C2 PFDoA	97		25 - 150
13C2 PFTeDA	91		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	98		25 - 150
13C4 PFOS	100		25 - 150
13C8 FOSA	89		10 - 150
d3-NMeFOSAA	87		25 - 150
d5-NEtFOSAA	85		25 - 150
d-N-MeFOSA-M	72		10 - 150
d-N-EtFOSA-M	73		10 - 150
d7-N-MeFOSE-M	85		10 - 150
d9-N-EtFOSE-M	83		10 - 150
M2-4:2 FTS	102		25 - 150
M2-6:2 FTS	97		25 - 150
M2-8:2 FTS	105		25 - 150
13C3 HFPO-DA	104		25 - 150

**Lab Sample ID: LCSD 320-688433/3-A**  
**Matrix: Water**  
**Analysis Batch: 690092**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 688433**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	41.5		ng/L		104	60 - 135	0	30

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

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

**Lab Sample ID: LCSD 320-688433/3-A**  
**Matrix: Water**  
**Analysis Batch: 690092**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 688433**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	40.0	38.9		ng/L		97	60 - 135	3	30
Perfluorohexanoic acid (PFHxA)	40.0	42.7		ng/L		107	60 - 135	3	30
Perfluoroheptanoic acid (PFHpA)	40.0	41.5		ng/L		104	60 - 135	1	30
Perfluorooctanoic acid (PFOA)	40.0	38.9		ng/L		97	60 - 135	2	30
Perfluorononanoic acid (PFNA)	40.0	43.5		ng/L		109	60 - 135	9	30
Perfluorodecanoic acid (PFDA)	40.0	40.9		ng/L		102	60 - 135	4	30
Perfluoroundecanoic acid (PFUnA)	40.0	38.6		ng/L		96	60 - 135	1	30
Perfluorododecanoic acid (PFDoA)	40.0	40.3		ng/L		101	60 - 135	1	30
Perfluorotridecanoic acid (PFTrDA)	40.0	34.6		ng/L		86	60 - 135	9	30
Perfluorotetradecanoic acid (PFTeA)	40.0	40.7		ng/L		102	60 - 135	10	30
Perfluorobutanesulfonic acid (PFBS)	35.5	34.2		ng/L		96	60 - 135	2	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	37.4		ng/L		99	60 - 135	4	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.0		ng/L		96	60 - 135	0	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.8		ng/L		102	60 - 135	5	30
Perfluorooctanesulfonic acid (PFOS)	37.2	37.0		ng/L		99	60 - 135	4	30
Perfluorononanesulfonic acid (PFNS)	38.5	37.2		ng/L		97	60 - 135	4	30
Perfluorodecanesulfonic acid (PFDS)	38.6	37.1		ng/L		96	60 - 135	7	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	27.5		ng/L		71	60 - 135	6	30
Perfluorooctanesulfonamide (FOSA)	40.0	39.0		ng/L		98	60 - 135	5	30
NEtFOSA	40.0	38.5		ng/L		96	60 - 135	4	30
NMeFOSA	40.0	40.3		ng/L		101	60 - 135	5	30
NMeFOSAA	40.0	41.7		ng/L		104	60 - 135	1	30
NEtFOSAA	40.0	42.9		ng/L		107	60 - 135	9	30
NMeFOSE	40.0	39.3		ng/L		98	60 - 135	4	30
NEtFOSE	40.0	41.2		ng/L		103	60 - 135	4	30
4:2 FTS	37.5	39.3		ng/L		105	60 - 135	13	30
6:2 FTS	38.1	37.1		ng/L		97	60 - 135	8	30
8:2 FTS	38.4	38.3		ng/L		100	60 - 135	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	39.9		ng/L		106	60 - 135	2	30
HFPO-DA (GenX)	40.0	43.8		ng/L		109	60 - 135	12	30
9Cl-PF3ONS	37.4	38.2		ng/L		102	60 - 135	6	30
11Cl-PF3OUdS	37.8	35.3		ng/L		93	60 - 135	1	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	106		25 - 150
13C5 PFPeA	111		25 - 150
13C2 PFHxA	106		25 - 150
13C4 PFHpA	115		25 - 150

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

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

Lab Sample ID: LCSD 320-688433/3-A  
 Matrix: Water  
 Analysis Batch: 690092

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 688433

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	119		25 - 150
13C5 PFNA	115		25 - 150
13C2 PFDA	117		25 - 150
13C2 PFUnA	117		25 - 150
13C2 PFDoA	111		25 - 150
13C2 PFTeDA	83		25 - 150
13C3 PFBS	105		25 - 150
18O2 PFHxS	112		25 - 150
13C4 PFOS	112		25 - 150
13C8 FOSA	97		10 - 150
d3-NMeFOSAA	99		25 - 150
d5-NEtFOSAA	96		25 - 150
d-N-MeFOSA-M	74		10 - 150
d-N-EtFOSA-M	71		10 - 150
d7-N-MeFOSE-M	82		10 - 150
d9-N-EtFOSE-M	78		10 - 150
M2-4:2 FTS	110		25 - 150
M2-6:2 FTS	124		25 - 150
M2-8:2 FTS	121		25 - 150
13C3 HFPO-DA	106		25 - 150

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# QC Association Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

## LCMS

### Prep Batch: 688433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-101518-1	MW-01-202306	Total/NA	Water	3535	
320-101518-2	MW-02-202306	Total/NA	Water	3535	
320-101518-3	MW-03-202306	Total/NA	Water	3535	
320-101518-4	MW-04-202306	Total/NA	Water	3535	
320-101518-5	MW-05-202306	Total/NA	Water	3535	
320-101518-6	MW-06-202306	Total/NA	Water	3535	
320-101518-7	MW-07-202306	Total/NA	Water	3535	
320-101518-8	MW-08-202306	Total/NA	Water	3535	
320-101518-9	DUP-09-202306	Total/NA	Water	3535	
320-101518-10	EB-09-202306	Total/NA	Water	3535	
320-101518-11	PZ-01-202306	Total/NA	Water	3535	
MB 320-688433/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-688433/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-688433/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 690092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-101518-1	MW-01-202306	Total/NA	Water	537 (modified)	688433
320-101518-2	MW-02-202306	Total/NA	Water	537 (modified)	688433
320-101518-3	MW-03-202306	Total/NA	Water	537 (modified)	688433
320-101518-4	MW-04-202306	Total/NA	Water	537 (modified)	688433
320-101518-5	MW-05-202306	Total/NA	Water	537 (modified)	688433
320-101518-6	MW-06-202306	Total/NA	Water	537 (modified)	688433
320-101518-7	MW-07-202306	Total/NA	Water	537 (modified)	688433
320-101518-8	MW-08-202306	Total/NA	Water	537 (modified)	688433
320-101518-9	DUP-09-202306	Total/NA	Water	537 (modified)	688433
320-101518-10	EB-09-202306	Total/NA	Water	537 (modified)	688433
320-101518-11	PZ-01-202306	Total/NA	Water	537 (modified)	688433
MB 320-688433/1-A	Method Blank	Total/NA	Water	537 (modified)	688433
LCS 320-688433/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	688433
LCSD 320-688433/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	688433

# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-01-202306**

**Lab Sample ID: 320-101518-1**

Date Collected: 06/14/23 09:13

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283.3 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		5	1 mL	1 mL	690092	07/12/23 23:55	RS1	EET SAC

**Client Sample ID: MW-02-202306**

**Lab Sample ID: 320-101518-2**

Date Collected: 06/14/23 13:34

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283.9 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		5	1 mL	1 mL	690092	07/13/23 00:07	RS1	EET SAC

**Client Sample ID: MW-03-202306**

**Lab Sample ID: 320-101518-3**

Date Collected: 06/13/23 15:51

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			289.8 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	690092	07/12/23 22:15	RS1	EET SAC

**Client Sample ID: MW-04-202306**

**Lab Sample ID: 320-101518-4**

Date Collected: 06/14/23 14:56

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			291.7 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		20	1 mL	1 mL	690092	07/13/23 00:18	RS1	EET SAC

**Client Sample ID: MW-05-202306**

**Lab Sample ID: 320-101518-5**

Date Collected: 06/14/23 12:21

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283.7 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	690092	07/12/23 22:26	RS1	EET SAC

**Client Sample ID: MW-06-202306**

**Lab Sample ID: 320-101518-6**

Date Collected: 06/13/23 14:31

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			289.9 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	690092	07/12/23 22:37	RS1	EET SAC

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# Lab Chronicle

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-101518-1

**Client Sample ID: MW-07-202306**

**Lab Sample ID: 320-101518-7**

Date Collected: 06/13/23 13:02

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			288.5 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	690092	07/12/23 22:48	RS1	EET SAC

**Client Sample ID: MW-08-202306**

**Lab Sample ID: 320-101518-8**

Date Collected: 06/13/23 11:27

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			301 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	690092	07/12/23 23:00	RS1	EET SAC

**Client Sample ID: DUP-09-202306**

**Lab Sample ID: 320-101518-9**

Date Collected: 06/14/23 00:00

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			296.2 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		20	1 mL	1 mL	690092	07/13/23 00:29	RS1	EET SAC

**Client Sample ID: EB-09-202306**

**Lab Sample ID: 320-101518-10**

Date Collected: 06/14/23 14:30

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	690092	07/12/23 23:11	RS1	EET SAC

**Client Sample ID: PZ-01-202306**

**Lab Sample ID: 320-101518-11**

Date Collected: 06/14/23 10:32

Matrix: Water

Date Received: 06/15/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			284.3 mL	10.0 mL	688433	07/06/23 11:34	JS	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	690092	07/12/23 23:44	RS1	EET SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

## Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4040	01-29-24
Wisconsin	State	998204680	08-31-23

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# Method Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

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

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

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

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# Sample Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-101518-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-101518-1	MW-01-202306	Water	06/14/23 09:13	06/15/23 09:10
320-101518-2	MW-02-202306	Water	06/14/23 13:34	06/15/23 09:10
320-101518-3	MW-03-202306	Water	06/13/23 15:51	06/15/23 09:10
320-101518-4	MW-04-202306	Water	06/14/23 14:56	06/15/23 09:10
320-101518-5	MW-05-202306	Water	06/14/23 12:21	06/15/23 09:10
320-101518-6	MW-06-202306	Water	06/13/23 14:31	06/15/23 09:10
320-101518-7	MW-07-202306	Water	06/13/23 13:02	06/15/23 09:10
320-101518-8	MW-08-202306	Water	06/13/23 11:27	06/15/23 09:10
320-101518-9	DUP-09-202306	Water	06/14/23 00:00	06/15/23 09:10
320-101518-10	EB-09-202306	Water	06/14/23 14:30	06/15/23 09:10
320-101518-11	PZ-01-202306	Water	06/14/23 10:32	06/15/23 09:10

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Address: Eurofins TA Sacramento

# Chain of Custody Record

703031



Environment Testing America

TAL-8210

Regulatory Program:  DW  NPDES  RCRA  Other:

Project Manager: Jeff Ramey

Site Contact:

Date: 6/14/23

Carrier:

Lab Contact: David Altker

COG No. 1 of 1 COCs

Tell/Email: Ramey@trc.com

Analysis Turnaround Time

CALENDAR DAYS  WORKING DAYS

TAT if different from Below

2 weeks  1 week  2 days  1 day

Client Contact

Company Name: TRC Env.

Address: 999 Foorlor Dr. Ste 101

City/State/Zip: Madison, WI

Phone: 608-234-7374

Fax:

Project Name: RockGen PFAS

Site: RockGen Energy - Cambridge

P.O.#

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
MW-01-202306	6/14/23	913	G	GW	2	N	N	X
MW-02-202306	6/14/23	1334	G	GW	2	N	N	X
MW-03-202306	6/13/23	1551	G	GW	2	N	N	X
MW-04-202306	6/14/23	1456	G	GW	2	N	N	X
MW-05-202306	6/14/23	1221	G	GW	2	N	N	X
MW-06-202306	6/13/23	1431	G	GW	2	N	N	X
MW-07-202306	6/13/23	1302	G	GW	2	N	N	X
MW-08-202306	6/13/23	1127	G	GW	2	N	N	X
DUP-09-202306	6/14/23	-	G	GW	2	N	N	Y
EB-09-202306	6/14/23	1430	G	GW	2	N	N	X
P2-01-202306	6/14/23	1032	G	GW	2	N	N	X



Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Cooler Temp. (°C): Obs'd: 43 Corr'd: 43 Therm ID No.: 610

Received by: [Signature] Company: [Blank] Date/Time: 6/14/23 1700

Received by: [Signature] Company: [Blank] Date/Time: 6/14/23 910

Received in Laboratory by: [Blank] Company: [Blank] Date/Time: [Blank]



# Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-101518-1

**Login Number: 101518**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator: Oropeza, Salvador**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2096381/2096380
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

