



# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

451482 RockGen

## JOB NUMBER

320-104488-1

# 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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# Definitions/Glossary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## 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: 320-104488-1

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## Job ID: 320-104488-1

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### Laboratory: Eurofins Sacramento

#### Narrative

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#### Job Narrative 320-104488-1

#### Receipt

The samples were received on 9/1/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6° C.

#### LCMS

Method 537 (modified): Results for samples MW-01-202308 (320-104488-1), MW-02-202308 (320-104488-2), MW-04-202308 (320-104488-4) and DUP-09-202308 (320-104488-9) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): The low laboratory control sample (LLCS) for preparation batch 320-707208 and analytical batch 320-707310 recovered outside control limits for the following analytes: NMeFOSE and NEtFOSE. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte: MW-04-202308 (320-104488-4) and DUP-09-202308 (320-104488-9).

Method 537 (modified): The RPD of the low laboratory control sample (LLCS) and low laboratory control sample duplicate (LLCSD) for preparation batch 320-707208 and analytical batch 320-707310 recovered outside control limits for the following analytes: NMeFOSE and NEtFOSE.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: MW-04-202308 (320-104488-4) and DUP-09-202308 (320-104488-9). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The samples were re-analyzed with concurring results; therefore, the data have been reported.

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 320-707208 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. MW-05-202308 (320-104488-5) and MW-06-202308 (320-104488-6)

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-707208.

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: 320-104488-1

## Client Sample ID: MW-01-202308

## Lab Sample ID: 320-104488-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	210		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	160		1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	13		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.50	J	1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.65	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.4		1.7	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.1	J	1.7	0.85	ng/L	1		537 (modified)	Total/NA
8:2 FTS	55		1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	990		17	4.2	ng/L	10		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	550		17	5.0	ng/L	10		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	590		17	2.2	ng/L	10		537 (modified)	Total/NA
6:2 FTS - DL	1100		43	22	ng/L	10		537 (modified)	Total/NA

## Client Sample ID: MW-02-202308

## Lab Sample ID: 320-104488-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	260		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	250		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	150		1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	10		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.2	J	1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.42	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.7	0.46	ng/L	1		537 (modified)	Total/NA
4:2 FTS	2.0		1.7	0.21	ng/L	1		537 (modified)	Total/NA
8:2 FTS	29		1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1300		17	4.2	ng/L	10		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	800		17	5.0	ng/L	10		537 (modified)	Total/NA
6:2 FTS - DL	930		43	21	ng/L	10		537 (modified)	Total/NA

## Client Sample ID: MW-03-202308

## Lab Sample ID: 320-104488-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.8		4.5	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.34	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.88	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-04-202308

## Lab Sample ID: 320-104488-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	72		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	29		1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.9		1.7	0.94	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.77	J	1.7	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.71	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.38	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.5		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.70	J I	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	23		1.7	0.46	ng/L	1		537 (modified)	Total/NA
4:2 FTS	43		1.7	0.21	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: 320-104488-1

## Client Sample ID: MW-04-202308 (Continued)

Lab Sample ID: 320-104488-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA) - DL	460		86	41	ng/L	20		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	2200		34	8.4	ng/L	20		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1700		34	9.9	ng/L	20		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	970		34	4.3	ng/L	20		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1000		34	15	ng/L	20		537 (modified)	Total/NA
6:2 FTS - DL	5000		86	43	ng/L	20		537 (modified)	Total/NA
8:2 FTS - DL	3000		34	7.9	ng/L	20		537 (modified)	Total/NA

## Client Sample ID: MW-05-202308

Lab Sample ID: 320-104488-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	55		4.3	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	260		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	160		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	140		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	93		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.3		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.8		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.58	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.3		1.7	0.46	ng/L	1		537 (modified)	Total/NA
4:2 FTS	1.3	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
6:2 FTS	290		4.3	2.1	ng/L	1		537 (modified)	Total/NA
8:2 FTS	230		1.7	0.39	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-06-202308

Lab Sample ID: 320-104488-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.6	J	4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.76	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-07-202308

Lab Sample ID: 320-104488-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.53	J	1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.9		1.7	0.17	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-08-202308

Lab Sample ID: 320-104488-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	4.5		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.0		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.2		1.7	0.71	ng/L	1		537 (modified)	Total/NA
6:2 FTS	18		4.2	2.1	ng/L	1		537 (modified)	Total/NA
8:2 FTS	11		1.7	0.38	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: DUP-09-202308

Lab Sample ID: 320-104488-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	70		1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	30		1.6	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	2.1		1.6	0.90	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.91	J	1.6	0.45	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: 320-104488-1

## Client Sample ID: DUP-09-202308 (Continued)

Lab Sample ID: 320-104488-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.74	J	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.39	J	1.6	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.6	0.47	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.88	J I	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	24		1.6	0.44	ng/L	1		537 (modified)	Total/NA
4:2 FTS	46		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	490		82	39	ng/L	20		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	2400		33	8.1	ng/L	20		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1700		33	9.5	ng/L	20		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	1000		33	4.1	ng/L	20		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1100		33	14	ng/L	20		537 (modified)	Total/NA
6:2 FTS - DL	5100		82	41	ng/L	20		537 (modified)	Total/NA
8:2 FTS - DL	2800		33	7.6	ng/L	20		537 (modified)	Total/NA

## Client Sample ID: EB-09-202308

Lab Sample ID: 320-104488-10

No Detections.

## Client Sample ID: EB-10-202308

Lab Sample ID: 320-104488-11

No Detections.

## Client Sample ID: FB-02-202308

Lab Sample ID: 320-104488-12

No Detections.

## Client Sample ID: PZ-01-202308

Lab Sample ID: 320-104488-13

No Detections.

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: 320-104488-1

**Client Sample ID: MW-01-202308**

**Lab Sample ID: 320-104488-1**

Date Collected: 08/30/23 09:42

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	210		4.3	2.1	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorooctanoic acid (PFOA)	160		1.7	0.74	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorononanoic acid (PFNA)	13		1.7	0.23	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorodecanoic acid (PFDA)	0.50	J	1.7	0.27	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorobutanesulfonic acid (PFBS)	0.65	J	1.7	0.17	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	1.7	0.49	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorooctanesulfonic acid (PFOS)	3.4		1.7	0.47	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		09/18/23 20:00	09/19/23 21:22	1
Perfluorooctanesulfonamide (FOSA)	1.1	J	1.7	0.85	ng/L		09/18/23 20:00	09/19/23 21:22	1
NEtFOSA	<0.75		1.7	0.75	ng/L		09/18/23 20:00	09/19/23 21:22	1
NMeFOSA	<0.37		1.7	0.37	ng/L		09/18/23 20:00	09/19/23 21:22	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		09/18/23 20:00	09/19/23 21:22	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		09/18/23 20:00	09/19/23 21:22	1
NMeFOSE	<1.2	*+ *1	3.5	1.2	ng/L		09/18/23 20:00	09/19/23 21:22	1
NEtFOSE	<0.74	*+ *1	1.7	0.74	ng/L		09/18/23 20:00	09/19/23 21:22	1
4:2 FTS	<0.21		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 21:22	1
8:2 FTS	55		1.7	0.40	ng/L		09/18/23 20:00	09/19/23 21:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		09/18/23 20:00	09/19/23 21:22	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		09/18/23 20:00	09/19/23 21:22	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 21:22	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		09/18/23 20:00	09/19/23 21:22	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	96		25 - 150				09/18/23 20:00	09/19/23 21:22	1
13C4 PFOA	100		25 - 150				09/18/23 20:00	09/19/23 21:22	1
13C5 PFNA	104		25 - 150				09/18/23 20:00	09/19/23 21:22	1
13C2 PFDA	93		25 - 150				09/18/23 20:00	09/19/23 21:22	1
13C2 PFUnA	94		25 - 150				09/18/23 20:00	09/19/23 21:22	1
13C2 PFDoA	91		25 - 150				09/18/23 20:00	09/19/23 21:22	1
13C2 PFTeDA	91		25 - 150				09/18/23 20:00	09/19/23 21:22	1
13C3 PFBS	96		25 - 150				09/18/23 20:00	09/19/23 21:22	1
18O2 PFHxS	100		25 - 150				09/18/23 20:00	09/19/23 21:22	1
13C4 PFOS	93		25 - 150				09/18/23 20:00	09/19/23 21:22	1
13C8 FOSA	105		10 - 150				09/18/23 20:00	09/19/23 21:22	1
d3-NMeFOSAA	102		25 - 150				09/18/23 20:00	09/19/23 21:22	1
d5-NEtFOSAA	99		25 - 150				09/18/23 20:00	09/19/23 21:22	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-01-202308**

**Lab Sample ID: 320-104488-1**

Date Collected: 08/30/23 09:42

Matrix: Water

Date Received: 09/01/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d-N-MeFOSA-M	85		10 - 150	09/18/23 20:00	09/19/23 21:22	1
d-N-EtFOSA-M	91		10 - 150	09/18/23 20:00	09/19/23 21:22	1
d7-N-MeFOSE-M	99		10 - 150	09/18/23 20:00	09/19/23 21:22	1
d9-N-EtFOSE-M	97		10 - 150	09/18/23 20:00	09/19/23 21:22	1
M2-4:2 FTS	80		25 - 150	09/18/23 20:00	09/19/23 21:22	1
M2-8:2 FTS	65		25 - 150	09/18/23 20:00	09/19/23 21:22	1
13C3 HFPO-DA	95		25 - 150	09/18/23 20:00	09/19/23 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	990		17	4.2	ng/L		09/18/23 20:00	09/20/23 16:20	10
Perfluorohexanoic acid (PFHxA)	550		17	5.0	ng/L		09/18/23 20:00	09/20/23 16:20	10
Perfluoroheptanoic acid (PFHpA)	590		17	2.2	ng/L		09/18/23 20:00	09/20/23 16:20	10
6:2 FTS	1100		43	22	ng/L		09/18/23 20:00	09/20/23 16:20	10

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	117		25 - 150	09/18/23 20:00	09/20/23 16:20	10
13C2 PFHxA	110		25 - 150	09/18/23 20:00	09/20/23 16:20	10
13C4 PFHpA	92		25 - 150	09/18/23 20:00	09/20/23 16:20	10
M2-6:2 FTS	115		25 - 150	09/18/23 20:00	09/20/23 16:20	10

**Client Sample ID: MW-02-202308**

**Lab Sample ID: 320-104488-2**

Date Collected: 08/30/23 13:37

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	260		4.3	2.1	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluoroheptanoic acid (PFHpA)	250		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorooctanoic acid (PFOA)	150		1.7	0.73	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorononanoic acid (PFNA)	10		1.7	0.23	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorodecanoic acid (PFDA)	1.2 J		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorobutanesulfonic acid (PFBS)	0.42 J		1.7	0.17	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorohexanesulfonic acid (PFHxS)	1.2 J		1.7	0.49	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorooctanesulfonic acid (PFOS)	1.2 J		1.7	0.46	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		09/18/23 20:00	09/19/23 21:56	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		09/18/23 20:00	09/19/23 21:56	1
NEtFOSA	<0.75		1.7	0.75	ng/L		09/18/23 20:00	09/19/23 21:56	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-02-202308**

**Lab Sample ID: 320-104488-2**

Date Collected: 08/30/23 13:37

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	<0.37		1.7	0.37	ng/L		09/18/23 20:00	09/19/23 21:56	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		09/18/23 20:00	09/19/23 21:56	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		09/18/23 20:00	09/19/23 21:56	1
NMeFOSE	<1.2	*+ *1	3.4	1.2	ng/L		09/18/23 20:00	09/19/23 21:56	1
NEtFOSE	<0.73	*+ *1	1.7	0.73	ng/L		09/18/23 20:00	09/19/23 21:56	1
<b>4:2 FTS</b>	<b>2.0</b>		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 21:56	1
<b>8:2 FTS</b>	<b>29</b>		1.7	0.40	ng/L		09/18/23 20:00	09/19/23 21:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		09/18/23 20:00	09/19/23 21:56	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		09/18/23 20:00	09/19/23 21:56	1
9CI-PF3ONS	<0.21		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 21:56	1
11CI-PF3OUdS	<0.28		1.7	0.28	ng/L		09/18/23 20:00	09/19/23 21:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C4 PFHpA	99		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C4 PFOA	102		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C5 PFNA	95		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C2 PFDA	90		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C2 PFUnA	88		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C2 PFDoA	88		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C2 PFTeDA	80		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C3 PFBS	89		25 - 150				09/18/23 20:00	09/19/23 21:56	1
18O2 PFHxS	93		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C4 PFOS	91		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C8 FOSA	102		10 - 150				09/18/23 20:00	09/19/23 21:56	1
d3-NMeFOSAA	92		25 - 150				09/18/23 20:00	09/19/23 21:56	1
d5-NEtFOSAA	97		25 - 150				09/18/23 20:00	09/19/23 21:56	1
d-N-MeFOSA-M	77		10 - 150				09/18/23 20:00	09/19/23 21:56	1
d-N-EtFOSA-M	82		10 - 150				09/18/23 20:00	09/19/23 21:56	1
d7-N-MeFOSE-M	93		10 - 150				09/18/23 20:00	09/19/23 21:56	1
d9-N-EtFOSE-M	90		10 - 150				09/18/23 20:00	09/19/23 21:56	1
M2-4:2 FTS	71		25 - 150				09/18/23 20:00	09/19/23 21:56	1
M2-8:2 FTS	60		25 - 150				09/18/23 20:00	09/19/23 21:56	1
13C3 HFPO-DA	96		25 - 150				09/18/23 20:00	09/19/23 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>1300</b>		17	4.2	ng/L		09/18/23 20:00	09/20/23 16:31	10
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>800</b>		17	5.0	ng/L		09/18/23 20:00	09/20/23 16:31	10
<b>6:2 FTS</b>	<b>930</b>		43	21	ng/L		09/18/23 20:00	09/20/23 16:31	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	123		25 - 150				09/18/23 20:00	09/20/23 16:31	10
13C2 PFHxA	115		25 - 150				09/18/23 20:00	09/20/23 16:31	10
M2-6:2 FTS	120		25 - 150				09/18/23 20:00	09/20/23 16:31	10

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-03-202308**

**Lab Sample ID: 320-104488-3**

Date Collected: 08/29/23 18:16

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>6.8</b>		4.5	2.1	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		09/18/23 20:00	09/19/23 22:08	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>0.34</b>	<b>J</b>	1.8	0.22	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		09/18/23 20:00	09/19/23 22:08	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.88</b>	<b>J</b>	1.8	0.18	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		09/18/23 20:00	09/19/23 22:08	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		09/18/23 20:00	09/19/23 22:08	1
NETFOSA	<0.77		1.8	0.77	ng/L		09/18/23 20:00	09/19/23 22:08	1
NMeFOSA	<0.38		1.8	0.38	ng/L		09/18/23 20:00	09/19/23 22:08	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		09/18/23 20:00	09/19/23 22:08	1
NETFOSAA	<1.2		4.5	1.2	ng/L		09/18/23 20:00	09/19/23 22:08	1
NMeFOSE	<1.2	*+ *1	3.6	1.2	ng/L		09/18/23 20:00	09/19/23 22:08	1
NETFOSE	<0.76	*+ *1	1.8	0.76	ng/L		09/18/23 20:00	09/19/23 22:08	1
4:2 FTS	<0.21		1.8	0.21	ng/L		09/18/23 20:00	09/19/23 22:08	1
6:2 FTS	<2.2		4.5	2.2	ng/L		09/18/23 20:00	09/19/23 22:08	1
8:2 FTS	<0.41		1.8	0.41	ng/L		09/18/23 20:00	09/19/23 22:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		09/18/23 20:00	09/19/23 22:08	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		09/18/23 20:00	09/19/23 22:08	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		09/18/23 20:00	09/19/23 22:08	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		09/18/23 20:00	09/19/23 22:08	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	96		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C5 PFPeA	85		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C2 PFHxA	100		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C4 PFHpA	101		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C4 PFOA	104		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C5 PFNA	96		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C2 PFDA	93		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C2 PFUnA	88		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C2 PFDoA	80		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C2 PFTeDA	78		25 - 150				09/18/23 20:00	09/19/23 22:08	1
13C3 PFBS	95		25 - 150				09/18/23 20:00	09/19/23 22:08	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-03-202308**

**Lab Sample ID: 320-104488-3**

Date Collected: 08/29/23 18:16

Matrix: Water

Date Received: 09/01/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	99		25 - 150	09/18/23 20:00	09/19/23 22:08	1
13C4 PFOS	83		25 - 150	09/18/23 20:00	09/19/23 22:08	1
13C8 FOSA	100		10 - 150	09/18/23 20:00	09/19/23 22:08	1
d3-NMeFOSAA	94		25 - 150	09/18/23 20:00	09/19/23 22:08	1
d5-NEtFOSAA	93		25 - 150	09/18/23 20:00	09/19/23 22:08	1
d-N-MeFOSA-M	78		10 - 150	09/18/23 20:00	09/19/23 22:08	1
d-N-EtFOSA-M	81		10 - 150	09/18/23 20:00	09/19/23 22:08	1
d7-N-MeFOSE-M	90		10 - 150	09/18/23 20:00	09/19/23 22:08	1
d9-N-EtFOSE-M	88		10 - 150	09/18/23 20:00	09/19/23 22:08	1
M2-4:2 FTS	84		25 - 150	09/18/23 20:00	09/19/23 22:08	1
M2-6:2 FTS	73		25 - 150	09/18/23 20:00	09/19/23 22:08	1
M2-8:2 FTS	72		25 - 150	09/18/23 20:00	09/19/23 22:08	1
13C3 HFPO-DA	94		25 - 150	09/18/23 20:00	09/19/23 22:08	1

**Client Sample ID: MW-04-202308**

**Lab Sample ID: 320-104488-4**

Date Collected: 08/30/23 14:43

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	72		1.7	0.23	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorodecanoic acid (PFDA)	29		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluoroundecanoic acid (PFUnA)	1.9		1.7	0.94	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorododecanoic acid (PFDoA)	0.77	J	1.7	0.47	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorobutanesulfonic acid (PFBS)	0.71	J	1.7	0.17	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluoropentanesulfonic acid (PFPeS)	0.38	J	1.7	0.26	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorohexanesulfonic acid (PFHxS)	3.5		1.7	0.49	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluoroheptanesulfonic acid (PFHpS)	0.70	J I	1.7	0.16	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorooctanesulfonic acid (PFOS)	23		1.7	0.46	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		09/18/23 20:00	09/19/23 22:19	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		09/18/23 20:00	09/19/23 22:19	1
NEtFOSA	<0.75		1.7	0.75	ng/L		09/18/23 20:00	09/19/23 22:19	1
NMeFOSA	<0.37		1.7	0.37	ng/L		09/18/23 20:00	09/19/23 22:19	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		09/18/23 20:00	09/19/23 22:19	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		09/18/23 20:00	09/19/23 22:19	1
NMeFOSE	<1.2	*+ *1	3.4	1.2	ng/L		09/18/23 20:00	09/19/23 22:19	1
NEtFOSE	<0.73	*+ *1	1.7	0.73	ng/L		09/18/23 20:00	09/19/23 22:19	1
4:2 FTS	43		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 22:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		09/18/23 20:00	09/19/23 22:19	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-04-202308**

**Lab Sample ID: 320-104488-4**

Date Collected: 08/30/23 14:43

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		09/18/23 20:00	09/19/23 22:19	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 22:19	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 22:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFNA	105		25 - 150				09/18/23 20:00	09/19/23 22:19	1
13C2 PFDA	96		25 - 150				09/18/23 20:00	09/19/23 22:19	1
13C2 PFUnA	105		25 - 150				09/18/23 20:00	09/19/23 22:19	1
13C2 PFDoA	101		25 - 150				09/18/23 20:00	09/19/23 22:19	1
13C2 PFTeDA	95		25 - 150				09/18/23 20:00	09/19/23 22:19	1
13C3 PFBS	102		25 - 150				09/18/23 20:00	09/19/23 22:19	1
18O2 PFHxS	106		25 - 150				09/18/23 20:00	09/19/23 22:19	1
13C4 PFOS	104		25 - 150				09/18/23 20:00	09/19/23 22:19	1
13C8 FOSA	108		10 - 150				09/18/23 20:00	09/19/23 22:19	1
d3-NMeFOSAA	112		25 - 150				09/18/23 20:00	09/19/23 22:19	1
d5-NEtFOSAA	109		25 - 150				09/18/23 20:00	09/19/23 22:19	1
d-N-MeFOSA-M	91		10 - 150				09/18/23 20:00	09/19/23 22:19	1
d-N-EtFOSA-M	97		10 - 150				09/18/23 20:00	09/19/23 22:19	1
d7-N-MeFOSE-M	108		10 - 150				09/18/23 20:00	09/19/23 22:19	1
d9-N-EtFOSE-M	105		10 - 150				09/18/23 20:00	09/19/23 22:19	1
M2-4:2 FTS	81		25 - 150				09/18/23 20:00	09/19/23 22:19	1
13C3 HFPO-DA	104		25 - 150				09/18/23 20:00	09/19/23 22:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	460		86	41	ng/L		09/18/23 20:00	09/20/23 16:43	20
Perfluoropentanoic acid (PFPeA)	2200		34	8.4	ng/L		09/18/23 20:00	09/20/23 16:43	20
Perfluorohexanoic acid (PFHxA)	1700		34	9.9	ng/L		09/18/23 20:00	09/20/23 16:43	20
Perfluoroheptanoic acid (PFHpA)	970		34	4.3	ng/L		09/18/23 20:00	09/20/23 16:43	20
Perfluorooctanoic acid (PFOA)	1000		34	15	ng/L		09/18/23 20:00	09/20/23 16:43	20
6:2 FTS	5000		86	43	ng/L		09/18/23 20:00	09/20/23 16:43	20
8:2 FTS	3000		34	7.9	ng/L		09/18/23 20:00	09/20/23 16:43	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	121		25 - 150				09/18/23 20:00	09/20/23 16:43	20
13C5 PFPeA	127		25 - 150				09/18/23 20:00	09/20/23 16:43	20
13C2 PFHxA	114		25 - 150				09/18/23 20:00	09/20/23 16:43	20
13C4 PFHpA	95		25 - 150				09/18/23 20:00	09/20/23 16:43	20
13C4 PFOA	104		25 - 150				09/18/23 20:00	09/20/23 16:43	20
M2-6:2 FTS	187	*5+	25 - 150				09/18/23 20:00	09/20/23 16:43	20
M2-8:2 FTS	145		25 - 150				09/18/23 20:00	09/20/23 16:43	20

**Client Sample ID: MW-05-202308**

**Lab Sample ID: 320-104488-5**

Date Collected: 08/30/23 11:43

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	55		4.3	2.0	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluoropentanoic acid (PFPeA)	260		1.7	0.42	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorohexanoic acid (PFHxA)	160		1.7	0.49	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluoroheptanoic acid (PFHpA)	140		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 22:31	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-05-202308**

**Lab Sample ID: 320-104488-5**

Date Collected: 08/30/23 11:43

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	93		1.7	0.72	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorononanoic acid (PFNA)	8.3		1.7	0.23	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorodecanoic acid (PFDA)	2.8		1.7	0.26	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorobutanesulfonic acid (PFBS)	0.58	J	1.7	0.17	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorooctanesulfonic acid (PFOS)	4.3		1.7	0.46	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		09/18/23 20:00	09/19/23 22:31	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		09/18/23 20:00	09/19/23 22:31	1
NEtFOSA	<0.74		1.7	0.74	ng/L		09/18/23 20:00	09/19/23 22:31	1
NMeFOSA	<0.37		1.7	0.37	ng/L		09/18/23 20:00	09/19/23 22:31	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		09/18/23 20:00	09/19/23 22:31	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		09/18/23 20:00	09/19/23 22:31	1
NMeFOSE	<1.2	*+ *1	3.4	1.2	ng/L		09/18/23 20:00	09/19/23 22:31	1
NEtFOSE	<0.72	*+ *1	1.7	0.72	ng/L		09/18/23 20:00	09/19/23 22:31	1
4:2 FTS	1.3	J	1.7	0.20	ng/L		09/18/23 20:00	09/19/23 22:31	1
6:2 FTS	290		4.3	2.1	ng/L		09/18/23 20:00	09/19/23 22:31	1
8:2 FTS	230		1.7	0.39	ng/L		09/18/23 20:00	09/19/23 22:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		09/18/23 20:00	09/19/23 22:31	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		09/18/23 20:00	09/19/23 22:31	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		09/18/23 20:00	09/19/23 22:31	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 22:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C5 PFPeA	85		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C2 PFHxA	101		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C4 PFHpA	106		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C4 PFOA	104		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C5 PFNA	101		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C2 PFDA	96		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C2 PFUnA	102		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C2 PFDoA	90		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C2 PFTeDA	88		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C3 PFBS	102		25 - 150	09/18/23 20:00	09/19/23 22:31	1
18O2 PFHxS	104		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C4 PFOS	94		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C8 FOSA	108		10 - 150	09/18/23 20:00	09/19/23 22:31	1
d3-NMeFOSAA	98		25 - 150	09/18/23 20:00	09/19/23 22:31	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-05-202308**

**Lab Sample ID: 320-104488-5**

Date Collected: 08/30/23 11:43

Matrix: Water

Date Received: 09/01/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	101		25 - 150	09/18/23 20:00	09/19/23 22:31	1
d-N-MeFOSA-M	82		10 - 150	09/18/23 20:00	09/19/23 22:31	1
d-N-EtFOSA-M	88		10 - 150	09/18/23 20:00	09/19/23 22:31	1
d7-N-MeFOSE-M	101		10 - 150	09/18/23 20:00	09/19/23 22:31	1
d9-N-EtFOSE-M	102		10 - 150	09/18/23 20:00	09/19/23 22:31	1
M2-4:2 FTS	83		25 - 150	09/18/23 20:00	09/19/23 22:31	1
M2-6:2 FTS	76		25 - 150	09/18/23 20:00	09/19/23 22:31	1
M2-8:2 FTS	73		25 - 150	09/18/23 20:00	09/19/23 22:31	1
13C3 HFPO-DA	100		25 - 150	09/18/23 20:00	09/19/23 22:31	1

**Client Sample ID: MW-06-202308**

**Lab Sample ID: 320-104488-6**

Date Collected: 08/29/23 16:54

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>2.6</b>	<b>J</b>	4.2	2.0	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluoropentanoic acid (PFPeA)	<0.41		1.7	0.41	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorohexanoic acid (PFHxA)	<0.49		1.7	0.49	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorooctanoic acid (PFOA)	<0.72		1.7	0.72	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorododecanoic acid (PFDoA)	<0.46		1.7	0.46	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorotetradecanoic acid (PFTeA)	<0.61		1.7	0.61	ng/L		09/18/23 20:00	09/19/23 22:42	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.76</b>	<b>J</b>	1.7	0.17	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorohexanesulfonic acid (PFHxS)	<0.48		1.7	0.48	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorooctanesulfonic acid (PFOS)	<0.45		1.7	0.45	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		09/18/23 20:00	09/19/23 22:42	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		09/18/23 20:00	09/19/23 22:42	1
NEtFOSA	<0.73		1.7	0.73	ng/L		09/18/23 20:00	09/19/23 22:42	1
NMeFOSA	<0.36		1.7	0.36	ng/L		09/18/23 20:00	09/19/23 22:42	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		09/18/23 20:00	09/19/23 22:42	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		09/18/23 20:00	09/19/23 22:42	1
NMeFOSE	<1.2	*+ *1	3.4	1.2	ng/L		09/18/23 20:00	09/19/23 22:42	1
NEtFOSE	<0.72	*+ *1	1.7	0.72	ng/L		09/18/23 20:00	09/19/23 22:42	1
4:2 FTS	<0.20		1.7	0.20	ng/L		09/18/23 20:00	09/19/23 22:42	1
6:2 FTS	<2.1		4.2	2.1	ng/L		09/18/23 20:00	09/19/23 22:42	1
8:2 FTS	<0.39		1.7	0.39	ng/L		09/18/23 20:00	09/19/23 22:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		09/18/23 20:00	09/19/23 22:42	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-06-202308**

**Lab Sample ID: 320-104488-6**

**Date Collected: 08/29/23 16:54**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		09/18/23 20:00	09/19/23 22:42	1
9CI-PF3ONS	<0.20		1.7	0.20	ng/L		09/18/23 20:00	09/19/23 22:42	1
11CI-PF3OUdS	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 22:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	107		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C5 PFPeA	94		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C2 PFHxA	107		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C4 PFHpA	106		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C4 PFOA	105		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C5 PFNA	107		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C2 PFDA	96		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C2 PFUnA	99		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C2 PFDoA	96		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C2 PFTeDA	83		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C3 PFBS	109		25 - 150				09/18/23 20:00	09/19/23 22:42	1
18O2 PFHxS	109		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C4 PFOS	100		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C8 FOSA	111		10 - 150				09/18/23 20:00	09/19/23 22:42	1
d3-NMeFOSAA	106		25 - 150				09/18/23 20:00	09/19/23 22:42	1
d5-NEtFOSAA	106		25 - 150				09/18/23 20:00	09/19/23 22:42	1
d-N-MeFOSA-M	86		10 - 150				09/18/23 20:00	09/19/23 22:42	1
d-N-EtFOSA-M	89		10 - 150				09/18/23 20:00	09/19/23 22:42	1
d7-N-MeFOSE-M	99		10 - 150				09/18/23 20:00	09/19/23 22:42	1
d9-N-EtFOSE-M	94		10 - 150				09/18/23 20:00	09/19/23 22:42	1
M2-4:2 FTS	87		25 - 150				09/18/23 20:00	09/19/23 22:42	1
M2-6:2 FTS	77		25 - 150				09/18/23 20:00	09/19/23 22:42	1
M2-8:2 FTS	74		25 - 150				09/18/23 20:00	09/19/23 22:42	1
13C3 HFPO-DA	103		25 - 150				09/18/23 20:00	09/19/23 22:42	1

**Client Sample ID: MW-07-202308**

**Lab Sample ID: 320-104488-7**

**Date Collected: 08/29/23 14:26**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

**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		09/24/23 19:30	09/25/23 18:42	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		09/24/23 19:30	09/25/23 18:42	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.53</b>	<b>J</b>	1.7	0.49	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorooctanoic acid (PFOA)	<0.72		1.7	0.72	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.7	1.1	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		09/24/23 19:30	09/25/23 18:42	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>2.9</b>		1.7	0.17	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		09/24/23 19:30	09/25/23 18:42	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-07-202308**

**Lab Sample ID: 320-104488-7**

Date Collected: 08/29/23 14:26

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	<0.48		1.7	0.48	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		09/24/23 19:30	09/25/23 18:42	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		09/24/23 19:30	09/25/23 18:42	1
NEtFOSA	<0.74		1.7	0.74	ng/L		09/24/23 19:30	09/25/23 18:42	1
NMeFOSA	<0.37		1.7	0.37	ng/L		09/24/23 19:30	09/25/23 18:42	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		09/24/23 19:30	09/25/23 18:42	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		09/24/23 19:30	09/25/23 18:42	1
NMeFOSE	<1.2		3.4	1.2	ng/L		09/24/23 19:30	09/25/23 18:42	1
NEtFOSE	<0.72		1.7	0.72	ng/L		09/24/23 19:30	09/25/23 18:42	1
4:2 FTS	<0.20		1.7	0.20	ng/L		09/24/23 19:30	09/25/23 18:42	1
6:2 FTS	<2.1		4.2	2.1	ng/L		09/24/23 19:30	09/25/23 18:42	1
8:2 FTS	<0.39		1.7	0.39	ng/L		09/24/23 19:30	09/25/23 18:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		09/24/23 19:30	09/25/23 18:42	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		09/24/23 19:30	09/25/23 18:42	1
9CI-PF3ONS	<0.20		1.7	0.20	ng/L		09/24/23 19:30	09/25/23 18:42	1
11CI-PF3OUdS	<0.27		1.7	0.27	ng/L		09/24/23 19:30	09/25/23 18:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C5 PFPeA	94		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C2 PFHxA	91		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C4 PFHpA	90		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C4 PFOA	91		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C5 PFNA	95		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C2 PFDA	93		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C2 PFOA	97		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C2 PFDoA	83		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C2 PFTeDA	90		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C3 PFBS	90		25 - 150	09/24/23 19:30	09/25/23 18:42	1
18O2 PFHxS	103		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C4 PFOS	97		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C8 FOSA	99		10 - 150	09/24/23 19:30	09/25/23 18:42	1
d3-NMeFOSAA	99		25 - 150	09/24/23 19:30	09/25/23 18:42	1
d5-NEtFOSAA	96		25 - 150	09/24/23 19:30	09/25/23 18:42	1
d-N-MeFOSA-M	80		10 - 150	09/24/23 19:30	09/25/23 18:42	1
d-N-EtFOSA-M	80		10 - 150	09/24/23 19:30	09/25/23 18:42	1
d7-N-MeFOSE-M	106		10 - 150	09/24/23 19:30	09/25/23 18:42	1
d9-N-EtFOSE-M	101		10 - 150	09/24/23 19:30	09/25/23 18:42	1
M2-4:2 FTS	95		25 - 150	09/24/23 19:30	09/25/23 18:42	1
M2-6:2 FTS	107		25 - 150	09/24/23 19:30	09/25/23 18:42	1
M2-8:2 FTS	105		25 - 150	09/24/23 19:30	09/25/23 18:42	1
13C3 HFPO-DA	88		25 - 150	09/24/23 19:30	09/25/23 18:42	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-08-202308**

**Lab Sample ID: 320-104488-8**

Date Collected: 08/29/23 12:43

Matrix: Water

Date Received: 09/01/23 09:30

**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		09/18/23 20:00	09/19/23 23:28	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>4.5</b>		1.7	0.41	ng/L		09/18/23 20:00	09/19/23 23:28	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>3.0</b>		1.7	0.48	ng/L		09/18/23 20:00	09/19/23 23:28	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>1.8</b>		1.7	0.21	ng/L		09/18/23 20:00	09/19/23 23:28	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.2</b>		1.7	0.71	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluoroundecanoic acid (PFUnA)	<0.92		1.7	0.92	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorododecanoic acid (PFDoA)	<0.46		1.7	0.46	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.61		1.7	0.61	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.48		1.7	0.48	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorooctanesulfonic acid (PFOS)	<0.45		1.7	0.45	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.81		1.7	0.81	ng/L		09/18/23 20:00	09/19/23 23:28	1
Perfluorooctanesulfonamide (FOSA)	<0.82		1.7	0.82	ng/L		09/18/23 20:00	09/19/23 23:28	1
NEtFOSA	<0.73		1.7	0.73	ng/L		09/18/23 20:00	09/19/23 23:28	1
NMeFOSA	<0.36		1.7	0.36	ng/L		09/18/23 20:00	09/19/23 23:28	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		09/18/23 20:00	09/19/23 23:28	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		09/18/23 20:00	09/19/23 23:28	1
NMeFOSE	<1.2	*+ *1	3.3	1.2	ng/L		09/18/23 20:00	09/19/23 23:28	1
NEtFOSE	<0.71	*+ *1	1.7	0.71	ng/L		09/18/23 20:00	09/19/23 23:28	1
4:2 FTS	<0.20		1.7	0.20	ng/L		09/18/23 20:00	09/19/23 23:28	1
<b>6:2 FTS</b>	<b>18</b>		4.2	2.1	ng/L		09/18/23 20:00	09/19/23 23:28	1
<b>8:2 FTS</b>	<b>11</b>		1.7	0.38	ng/L		09/18/23 20:00	09/19/23 23:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.33		1.7	0.33	ng/L		09/18/23 20:00	09/19/23 23:28	1
HFPO-DA (GenX)	<1.3		3.3	1.3	ng/L		09/18/23 20:00	09/19/23 23:28	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		09/18/23 20:00	09/19/23 23:28	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/19/23 23:28	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C5 PFPeA	84		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C2 PFHxA	101		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C4 PFHpA	98		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C4 PFOA	102		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C5 PFNA	94		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C2 PFDA	93		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C2 PFUnA	94		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C2 PFDoA	89		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C2 PFTeDA	82		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C3 PFBS	100		25 - 150	09/18/23 20:00	09/19/23 23:28	1
18O2 PFHxS	100		25 - 150	09/18/23 20:00	09/19/23 23:28	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-08-202308**

**Lab Sample ID: 320-104488-8**

Date Collected: 08/29/23 12:43

Matrix: Water

Date Received: 09/01/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	92		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C8 FOSA	103		10 - 150	09/18/23 20:00	09/19/23 23:28	1
d3-NMeFOSAA	93		25 - 150	09/18/23 20:00	09/19/23 23:28	1
d5-NEtFOSAA	94		25 - 150	09/18/23 20:00	09/19/23 23:28	1
d-N-MeFOSA-M	78		10 - 150	09/18/23 20:00	09/19/23 23:28	1
d-N-EtFOSA-M	82		10 - 150	09/18/23 20:00	09/19/23 23:28	1
d7-N-MeFOSE-M	94		10 - 150	09/18/23 20:00	09/19/23 23:28	1
d9-N-EtFOSE-M	92		10 - 150	09/18/23 20:00	09/19/23 23:28	1
M2-4:2 FTS	76		25 - 150	09/18/23 20:00	09/19/23 23:28	1
M2-6:2 FTS	72		25 - 150	09/18/23 20:00	09/19/23 23:28	1
M2-8:2 FTS	66		25 - 150	09/18/23 20:00	09/19/23 23:28	1
13C3 HFPO-DA	95		25 - 150	09/18/23 20:00	09/19/23 23:28	1

**Client Sample ID: DUP-09-202308**

**Lab Sample ID: 320-104488-9**

Date Collected: 08/30/23 00:00

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	70		1.6	0.22	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorodecanoic acid (PFDA)	30		1.6	0.26	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluoroundecanoic acid (PFUnA)	2.1		1.6	0.90	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorododecanoic acid (PFDoA)	0.91	J	1.6	0.45	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.6	1.1	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorotetradecanoic acid (PFTeA)	<0.60		1.6	0.60	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorobutanesulfonic acid (PFBS)	0.74	J	1.6	0.16	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluoropentanesulfonic acid (PFPeS)	0.39	J	1.6	0.25	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.6	0.47	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluoroheptanesulfonic acid (PFHpS)	0.88	J I	1.6	0.16	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorooctanesulfonic acid (PFOS)	24		1.6	0.44	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorononanesulfonic acid (PFNS)	<0.30		1.6	0.30	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorodecanesulfonic acid (PFDS)	<0.26		1.6	0.26	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorododecanesulfonic acid (PFDoS)	<0.80		1.6	0.80	ng/L		09/18/23 20:00	09/19/23 23:39	1
Perfluorooctanesulfonamide (FOSA)	<0.81		1.6	0.81	ng/L		09/18/23 20:00	09/19/23 23:39	1
NEtFOSA	<0.72		1.6	0.72	ng/L		09/18/23 20:00	09/19/23 23:39	1
NMeFOSA	<0.35		1.6	0.35	ng/L		09/18/23 20:00	09/19/23 23:39	1
NMeFOSAA	<0.99		4.1	0.99	ng/L		09/18/23 20:00	09/19/23 23:39	1
NEtFOSAA	<1.1		4.1	1.1	ng/L		09/18/23 20:00	09/19/23 23:39	1
NMeFOSE	<1.2	*+ *1	3.3	1.2	ng/L		09/18/23 20:00	09/19/23 23:39	1
NEtFOSE	<0.70	*+ *1	1.6	0.70	ng/L		09/18/23 20:00	09/19/23 23:39	1
4:2 FTS	46		1.6	0.20	ng/L		09/18/23 20:00	09/19/23 23:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.33		1.6	0.33	ng/L		09/18/23 20:00	09/19/23 23:39	1
HFPO-DA (GenX)	<1.2		3.3	1.2	ng/L		09/18/23 20:00	09/19/23 23:39	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: DUP-09-202308**

**Lab Sample ID: 320-104488-9**

Date Collected: 08/30/23 00:00

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<0.20		1.6	0.20	ng/L		09/18/23 20:00	09/19/23 23:39	1
11CI-PF3OUdS	<0.26		1.6	0.26	ng/L		09/18/23 20:00	09/19/23 23:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFNA	103		25 - 150				09/18/23 20:00	09/19/23 23:39	1
13C2 PFDA	89		25 - 150				09/18/23 20:00	09/19/23 23:39	1
13C2 PFUnA	99		25 - 150				09/18/23 20:00	09/19/23 23:39	1
13C2 PFDoA	94		25 - 150				09/18/23 20:00	09/19/23 23:39	1
13C2 PFTeDA	89		25 - 150				09/18/23 20:00	09/19/23 23:39	1
13C3 PFBS	92		25 - 150				09/18/23 20:00	09/19/23 23:39	1
18O2 PFHxS	99		25 - 150				09/18/23 20:00	09/19/23 23:39	1
13C4 PFOS	96		25 - 150				09/18/23 20:00	09/19/23 23:39	1
13C8 FOSA	100		10 - 150				09/18/23 20:00	09/19/23 23:39	1
d3-NMeFOSAA	103		25 - 150				09/18/23 20:00	09/19/23 23:39	1
d5-NEtFOSAA	106		25 - 150				09/18/23 20:00	09/19/23 23:39	1
d-N-MeFOSA-M	88		10 - 150				09/18/23 20:00	09/19/23 23:39	1
d-N-EtFOSA-M	91		10 - 150				09/18/23 20:00	09/19/23 23:39	1
d7-N-MeFOSE-M	102		10 - 150				09/18/23 20:00	09/19/23 23:39	1
d9-N-EtFOSE-M	97		10 - 150				09/18/23 20:00	09/19/23 23:39	1
M2-4:2 FTS	71		25 - 150				09/18/23 20:00	09/19/23 23:39	1
13C3 HFPO-DA	101		25 - 150				09/18/23 20:00	09/19/23 23:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	490		82	39	ng/L		09/18/23 20:00	09/20/23 16:54	20
Perfluoropentanoic acid (PFPeA)	2400		33	8.1	ng/L		09/18/23 20:00	09/20/23 16:54	20
Perfluorohexanoic acid (PFHxA)	1700		33	9.5	ng/L		09/18/23 20:00	09/20/23 16:54	20
Perfluoroheptanoic acid (PFHpA)	1000		33	4.1	ng/L		09/18/23 20:00	09/20/23 16:54	20
Perfluorooctanoic acid (PFOA)	1100		33	14	ng/L		09/18/23 20:00	09/20/23 16:54	20
6:2 FTS	5100		82	41	ng/L		09/18/23 20:00	09/20/23 16:54	20
8:2 FTS	2800		33	7.6	ng/L		09/18/23 20:00	09/20/23 16:54	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	117		25 - 150				09/18/23 20:00	09/20/23 16:54	20
13C5 PFPeA	111		25 - 150				09/18/23 20:00	09/20/23 16:54	20
13C2 PFHxA	108		25 - 150				09/18/23 20:00	09/20/23 16:54	20
13C4 PFHpA	90		25 - 150				09/18/23 20:00	09/20/23 16:54	20
13C4 PFOA	94		25 - 150				09/18/23 20:00	09/20/23 16:54	20
M2-6:2 FTS	181	*5+	25 - 150				09/18/23 20:00	09/20/23 16:54	20
M2-8:2 FTS	163	*5+	25 - 150				09/18/23 20:00	09/20/23 16:54	20

**Client Sample ID: EB-09-202308**

**Lab Sample ID: 320-104488-10**

Date Collected: 08/30/23 14:30

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.5		5.3	2.5	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluoropentanoic acid (PFPeA)	<0.52		2.1	0.52	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorohexanoic acid (PFHxA)	<0.61		2.1	0.61	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.1	0.26	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorooctanoic acid (PFOA)	<0.90		2.1	0.90	ng/L		09/18/23 20:00	09/19/23 23:51	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: EB-09-202308**

**Lab Sample ID: 320-104488-10**

Date Collected: 08/30/23 14:30

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	<0.29		2.1	0.29	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorodecanoic acid (PFDA)	<0.33		2.1	0.33	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorododecanoic acid (PFDoA)	<0.58		2.1	0.58	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.1	1.4	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorotetradecanoic acid (PFTeA)	<0.77		2.1	0.77	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluoropentanesulfonic acid (PFPeS)	<0.32		2.1	0.32	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorohexanesulfonic acid (PFHxS)	<0.60		2.1	0.60	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorooctanesulfonic acid (PFOS)	<0.57		2.1	0.57	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		09/18/23 20:00	09/19/23 23:51	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		09/18/23 20:00	09/19/23 23:51	1
NEtFOSA	<0.92		2.1	0.92	ng/L		09/18/23 20:00	09/19/23 23:51	1
NMeFOSA	<0.45		2.1	0.45	ng/L		09/18/23 20:00	09/19/23 23:51	1
NMeFOSAA	<1.3		5.3	1.3	ng/L		09/18/23 20:00	09/19/23 23:51	1
NEtFOSAA	<1.4		5.3	1.4	ng/L		09/18/23 20:00	09/19/23 23:51	1
NMeFOSE	<1.5	*+ *1	4.2	1.5	ng/L		09/18/23 20:00	09/19/23 23:51	1
NEtFOSE	<0.90	*+ *1	2.1	0.90	ng/L		09/18/23 20:00	09/19/23 23:51	1
4:2 FTS	<0.25		2.1	0.25	ng/L		09/18/23 20:00	09/19/23 23:51	1
6:2 FTS	<2.6		5.3	2.6	ng/L		09/18/23 20:00	09/19/23 23:51	1
8:2 FTS	<0.49		2.1	0.49	ng/L		09/18/23 20:00	09/19/23 23:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.42		2.1	0.42	ng/L		09/18/23 20:00	09/19/23 23:51	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		09/18/23 20:00	09/19/23 23:51	1
9Cl-PF3ONS	<0.25		2.1	0.25	ng/L		09/18/23 20:00	09/19/23 23:51	1
11Cl-PF3OUdS	<0.34		2.1	0.34	ng/L		09/18/23 20:00	09/19/23 23:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	106		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C5 PFPeA	93		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C2 PFHxA	105		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C4 PFHpA	108		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C4 PFOA	101		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C5 PFNA	109		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C2 PFDA	102		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C2 PFUnA	109		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C2 PFDoA	98		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C2 PFTeDA	91		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C3 PFBS	105		25 - 150	09/18/23 20:00	09/19/23 23:51	1
18O2 PFHxS	108		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C4 PFOS	104		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C8 FOSA	102		10 - 150	09/18/23 20:00	09/19/23 23:51	1
d3-NMeFOSAA	109		25 - 150	09/18/23 20:00	09/19/23 23:51	1
d5-NEtFOSAA	111		25 - 150	09/18/23 20:00	09/19/23 23:51	1
d-N-MeFOSA-M	91		10 - 150	09/18/23 20:00	09/19/23 23:51	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: EB-09-202308**

**Lab Sample ID: 320-104488-10**

Date Collected: 08/30/23 14:30

Matrix: Water

Date Received: 09/01/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d-N-EtFOSA-M	96		10 - 150	09/18/23 20:00	09/19/23 23:51	1
d7-N-MeFOSE-M	105		10 - 150	09/18/23 20:00	09/19/23 23:51	1
d9-N-EtFOSE-M	104		10 - 150	09/18/23 20:00	09/19/23 23:51	1
M2-4:2 FTS	91		25 - 150	09/18/23 20:00	09/19/23 23:51	1
M2-6:2 FTS	75		25 - 150	09/18/23 20:00	09/19/23 23:51	1
M2-8:2 FTS	84		25 - 150	09/18/23 20:00	09/19/23 23:51	1
13C3 HFPO-DA	102		25 - 150	09/18/23 20:00	09/19/23 23:51	1

**Client Sample ID: EB-10-202308**

**Lab Sample ID: 320-104488-11**

Date Collected: 08/30/23 14:40

Matrix: Water

Date Received: 09/01/23 09:30

**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		09/18/23 20:00	09/20/23 00:02	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.7	0.22	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorooctanoic acid (PFOA)	<0.74		1.7	0.74	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.7	0.47	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		09/18/23 20:00	09/20/23 00:02	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		09/18/23 20:00	09/20/23 00:02	1
NEtFOSA	<0.75		1.7	0.75	ng/L		09/18/23 20:00	09/20/23 00:02	1
NMeFOSA	<0.37		1.7	0.37	ng/L		09/18/23 20:00	09/20/23 00:02	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		09/18/23 20:00	09/20/23 00:02	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		09/18/23 20:00	09/20/23 00:02	1
NMeFOSE	<1.2	*+ *1	3.5	1.2	ng/L		09/18/23 20:00	09/20/23 00:02	1
NEtFOSE	<0.74	*+ *1	1.7	0.74	ng/L		09/18/23 20:00	09/20/23 00:02	1
4:2 FTS	<0.21		1.7	0.21	ng/L		09/18/23 20:00	09/20/23 00:02	1
6:2 FTS	<2.2		4.3	2.2	ng/L		09/18/23 20:00	09/20/23 00:02	1
8:2 FTS	<0.40		1.7	0.40	ng/L		09/18/23 20:00	09/20/23 00:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		09/18/23 20:00	09/20/23 00:02	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		09/18/23 20:00	09/20/23 00:02	1
9CI-PF3ONS	<0.21		1.7	0.21	ng/L		09/18/23 20:00	09/20/23 00:02	1
11CI-PF3OUdS	<0.28		1.7	0.28	ng/L		09/18/23 20:00	09/20/23 00:02	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: EB-10-202308**

**Lab Sample ID: 320-104488-11**

**Date Collected: 08/30/23 14:40**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	100		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C5 PFPeA	87		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C2 PFHxA	97		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C4 PFHpA	99		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C4 PFOA	106		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C5 PFNA	104		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C2 PFDA	100		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C2 PFUnA	95		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C2 PFDoA	95		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C2 PFTeDA	87		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C3 PFBS	98		25 - 150	09/18/23 20:00	09/20/23 00:02	1
18O2 PFHxS	105		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C4 PFOS	95		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C8 FOSA	99		10 - 150	09/18/23 20:00	09/20/23 00:02	1
d3-NMeFOSAA	101		25 - 150	09/18/23 20:00	09/20/23 00:02	1
d5-NEtFOSAA	105		25 - 150	09/18/23 20:00	09/20/23 00:02	1
d-N-MeFOSA-M	86		10 - 150	09/18/23 20:00	09/20/23 00:02	1
d-N-EtFOSA-M	90		10 - 150	09/18/23 20:00	09/20/23 00:02	1
d7-N-MeFOSE-M	105		10 - 150	09/18/23 20:00	09/20/23 00:02	1
d9-N-EtFOSE-M	110		10 - 150	09/18/23 20:00	09/20/23 00:02	1
M2-4:2 FTS	84		25 - 150	09/18/23 20:00	09/20/23 00:02	1
M2-6:2 FTS	79		25 - 150	09/18/23 20:00	09/20/23 00:02	1
M2-8:2 FTS	73		25 - 150	09/18/23 20:00	09/20/23 00:02	1
13C3 HFPO-DA	97		25 - 150	09/18/23 20:00	09/20/23 00:02	1

**Client Sample ID: FB-02-202308**

**Lab Sample ID: 320-104488-12**

**Date Collected: 08/30/23 14:50**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorobutanoic acid (PFBA)	<2.1		4.3	2.1	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.7	0.43	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.7	0.22	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorooctanoic acid (PFOA)	<0.74		1.7	0.74	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.7	0.96	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorotridecanoic acid (PFTeDA)	<1.1		1.7	1.1	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.7	0.64	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.7	0.50	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.7	0.17	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.7	0.47	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		09/18/23 20:00	09/20/23 00:14	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: FB-02-202308**

**Lab Sample ID: 320-104488-12**

Date Collected: 08/30/23 14:50

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		09/18/23 20:00	09/20/23 00:14	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		09/18/23 20:00	09/20/23 00:14	1
NEtFOSA	<0.76		1.7	0.76	ng/L		09/18/23 20:00	09/20/23 00:14	1
NMeFOSA	<0.37		1.7	0.37	ng/L		09/18/23 20:00	09/20/23 00:14	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		09/18/23 20:00	09/20/23 00:14	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		09/18/23 20:00	09/20/23 00:14	1
NMeFOSE	<1.2	*+ *1	3.5	1.2	ng/L		09/18/23 20:00	09/20/23 00:14	1
NEtFOSE	<0.74	*+ *1	1.7	0.74	ng/L		09/18/23 20:00	09/20/23 00:14	1
4:2 FTS	<0.21		1.7	0.21	ng/L		09/18/23 20:00	09/20/23 00:14	1
6:2 FTS	<2.2		4.3	2.2	ng/L		09/18/23 20:00	09/20/23 00:14	1
8:2 FTS	<0.40		1.7	0.40	ng/L		09/18/23 20:00	09/20/23 00:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		09/18/23 20:00	09/20/23 00:14	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		09/18/23 20:00	09/20/23 00:14	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		09/18/23 20:00	09/20/23 00:14	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		09/18/23 20:00	09/20/23 00:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	108		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C5 PFPeA	98		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C2 PFHxA	112		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C4 PFHpA	113		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C4 PFOA	115		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C5 PFNA	115		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C2 PFDA	109		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C2 PFUnA	111		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C2 PFDoA	110		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C2 PFTeDA	100		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C3 PFBS	114		25 - 150				09/18/23 20:00	09/20/23 00:14	1
18O2 PFHxS	115		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C4 PFOS	112		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C8 FOSA	114		10 - 150				09/18/23 20:00	09/20/23 00:14	1
d3-NMeFOSAA	113		25 - 150				09/18/23 20:00	09/20/23 00:14	1
d5-NEtFOSAA	117		25 - 150				09/18/23 20:00	09/20/23 00:14	1
d-N-MeFOSA-M	97		10 - 150				09/18/23 20:00	09/20/23 00:14	1
d-N-EtFOSA-M	104		10 - 150				09/18/23 20:00	09/20/23 00:14	1
d7-N-MeFOSE-M	119		10 - 150				09/18/23 20:00	09/20/23 00:14	1
d9-N-EtFOSE-M	113		10 - 150				09/18/23 20:00	09/20/23 00:14	1
M2-4:2 FTS	94		25 - 150				09/18/23 20:00	09/20/23 00:14	1
M2-6:2 FTS	84		25 - 150				09/18/23 20:00	09/20/23 00:14	1
M2-8:2 FTS	80		25 - 150				09/18/23 20:00	09/20/23 00:14	1
13C3 HFPO-DA	109		25 - 150				09/18/23 20:00	09/20/23 00:14	1

**Client Sample ID: PZ-01-202308**

**Lab Sample ID: 320-104488-13**

Date Collected: 08/30/23 12:38

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		09/18/23 20:00	09/20/23 00:25	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: PZ-01-202308**

**Lab Sample ID: 320-104488-13**

Date Collected: 08/30/23 12:38

Matrix: Water

Date Received: 09/01/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		09/18/23 20:00	09/20/23 00:25	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		09/18/23 20:00	09/20/23 00:25	1
NEtFOSA	<0.79		1.8	0.79	ng/L		09/18/23 20:00	09/20/23 00:25	1
NMeFOSA	<0.39		1.8	0.39	ng/L		09/18/23 20:00	09/20/23 00:25	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		09/18/23 20:00	09/20/23 00:25	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		09/18/23 20:00	09/20/23 00:25	1
NMeFOSE	<1.3	*+ *1	3.6	1.3	ng/L		09/18/23 20:00	09/20/23 00:25	1
NEtFOSE	<0.78	*+ *1	1.8	0.78	ng/L		09/18/23 20:00	09/20/23 00:25	1
4:2 FTS	<0.22		1.8	0.22	ng/L		09/18/23 20:00	09/20/23 00:25	1
6:2 FTS	<2.3		4.6	2.3	ng/L		09/18/23 20:00	09/20/23 00:25	1
8:2 FTS	<0.42		1.8	0.42	ng/L		09/18/23 20:00	09/20/23 00:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		09/18/23 20:00	09/20/23 00:25	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		09/18/23 20:00	09/20/23 00:25	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		09/18/23 20:00	09/20/23 00:25	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		09/18/23 20:00	09/20/23 00:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C5 PFPeA	84		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C2 PFHxA	96		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C4 PFHpA	94		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C4 PFOA	101		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C5 PFNA	93		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C2 PFDA	90		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C2 PFUnA	90		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C2 PFDoA	85		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C2 PFTeDA	86		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C3 PFBS	95		25 - 150	09/18/23 20:00	09/20/23 00:25	1
18O2 PFHxS	98		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C4 PFOS	94		25 - 150	09/18/23 20:00	09/20/23 00:25	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: PZ-01-202308**

**Lab Sample ID: 320-104488-13**

Date Collected: 08/30/23 12:38

Matrix: Water

Date Received: 09/01/23 09:30

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 FOSA	100		10 - 150	09/18/23 20:00	09/20/23 00:25	1
d3-NMeFOSAA	94		25 - 150	09/18/23 20:00	09/20/23 00:25	1
d5-NEtFOSAA	101		25 - 150	09/18/23 20:00	09/20/23 00:25	1
d-N-MeFOSA-M	78		10 - 150	09/18/23 20:00	09/20/23 00:25	1
d-N-EtFOSA-M	83		10 - 150	09/18/23 20:00	09/20/23 00:25	1
d7-N-MeFOSE-M	93		10 - 150	09/18/23 20:00	09/20/23 00:25	1
d9-N-EtFOSE-M	94		10 - 150	09/18/23 20:00	09/20/23 00:25	1
M2-4:2 FTS	83		25 - 150	09/18/23 20:00	09/20/23 00:25	1
M2-6:2 FTS	68		25 - 150	09/18/23 20:00	09/20/23 00:25	1
M2-8:2 FTS	69		25 - 150	09/18/23 20:00	09/20/23 00:25	1
13C3 HFPO-DA	94		25 - 150	09/18/23 20:00	09/20/23 00:25	1

# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-104488-1	MW-01-202308	96				100	104	93	94
320-104488-1 - DL	MW-01-202308		117	110	92				
320-104488-2	MW-02-202308	96			99	102	95	90	88
320-104488-2 - DL	MW-02-202308		123	115					
320-104488-3	MW-03-202308	96	85	100	101	104	96	93	88
320-104488-4	MW-04-202308						105	96	105
320-104488-4 - DL	MW-04-202308	121	127	114	95	104			
320-104488-5	MW-05-202308	100	85	101	106	104	101	96	102
320-104488-6	MW-06-202308	107	94	107	106	105	107	96	99
320-104488-7	MW-07-202308	96	94	91	90	91	95	93	97
320-104488-8	MW-08-202308	99	84	101	98	102	94	93	94
320-104488-9	DUP-09-202308						103	89	99
320-104488-9 - DL	DUP-09-202308	117	111	108	90	94			
320-104488-10	EB-09-202308	106	93	105	108	101	109	102	109
320-104488-11	EB-10-202308	100	87	97	99	106	104	100	95
320-104488-12	FB-02-202308	108	98	112	113	115	115	109	111
320-104488-13	PZ-01-202308	94	84	96	94	101	93	90	90
LCS 320-708551/2-A	Lab Control Sample	92	91	84	94	90	92	92	94
LLCS 320-707208/2-A	Lab Control Sample	92	82	97	97	98	100	96	97
LLCSD 320-707208/3-A	Lab Control Sample Dup	93	82	96	100	101	101	97	101
MB 320-707208/1-A	Method Blank	93	84	93	105	106	101	96	97
MB 320-708551/1-A	Method Blank	95	96	85	91	89	100	96	106

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-104488-1	MW-01-202308	91	91	96	100	93	105	102	99
320-104488-1 - DL	MW-01-202308								
320-104488-2	MW-02-202308	88	80	89	93	91	102	92	97
320-104488-2 - DL	MW-02-202308								
320-104488-3	MW-03-202308	80	78	95	99	83	100	94	93
320-104488-4	MW-04-202308	101	95	102	106	104	108	112	109
320-104488-4 - DL	MW-04-202308								
320-104488-5	MW-05-202308	90	88	102	104	94	108	98	101
320-104488-6	MW-06-202308	96	83	109	109	100	111	106	106
320-104488-7	MW-07-202308	83	90	90	103	97	99	99	96
320-104488-8	MW-08-202308	89	82	100	100	92	103	93	94
320-104488-9	DUP-09-202308	94	89	92	99	96	100	103	106
320-104488-9 - DL	DUP-09-202308								
320-104488-10	EB-09-202308	98	91	105	108	104	102	109	111
320-104488-11	EB-10-202308	95	87	98	105	95	99	101	105
320-104488-12	FB-02-202308	110	100	114	115	112	114	113	117
320-104488-13	PZ-01-202308	85	86	95	98	94	100	94	101
LCS 320-708551/2-A	Lab Control Sample	94	96	88	98	99	101	92	103
LLCS 320-707208/2-A	Lab Control Sample	93	91	92	96	96	100	99	103
LLCSD 320-707208/3-A	Lab Control Sample Dup	94	90	93	97	96	101	100	102
MB 320-707208/1-A	Method Blank	97	84	94	97	95	100	97	96
MB 320-708551/1-A	Method Blank	92	100	93	101	96	100	95	96

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# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
320-104488-1	MW-01-202308	85	91	99	97	80		65	95
320-104488-1 - DL	MW-01-202308						115		
320-104488-2	MW-02-202308	77	82	93	90	71		60	96
320-104488-2 - DL	MW-02-202308						120		
320-104488-3	MW-03-202308	78	81	90	88	84	73	72	94
320-104488-4	MW-04-202308	91	97	108	105	81			104
320-104488-4 - DL	MW-04-202308						187 *5+	145	
320-104488-5	MW-05-202308	82	88	101	102	83	76	73	100
320-104488-6	MW-06-202308	86	89	99	94	87	77	74	103
320-104488-7	MW-07-202308	80	80	106	101	95	107	105	88
320-104488-8	MW-08-202308	78	82	94	92	76	72	66	95
320-104488-9	DUP-09-202308	88	91	102	97	71			101
320-104488-9 - DL	DUP-09-202308						181 *5+	163 *5+	
320-104488-10	EB-09-202308	91	96	105	104	91	75	84	102
320-104488-11	EB-10-202308	86	90	105	110	84	79	73	97
320-104488-12	FB-02-202308	97	104	119	113	94	84	80	109
320-104488-13	PZ-01-202308	78	83	93	94	83	68	69	94
LCS 320-708551/2-A	Lab Control Sample	82	82	104	99	86	109	102	87
LLCS 320-707208/2-A	Lab Control Sample	82	85	112	109	81	74	73	90
LLCSD 320-707208/3-A	Lab Control Sample Dup	82	87	100	100	82	72	70	94
MB 320-707208/1-A	Method Blank	83	89	98	96	80	77	71	94
MB 320-708551/1-A	Method Blank	81	82	107	107	99	102	119	88

**Surrogate Legend**

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOA = d3-NMeFOA
- d5NEFOA = d5-NEtFOA
- dMeFOA = d-N-MeFOA-M
- dEtFOA = d-N-EtFOA-M
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- HFPODA = 13C3 HFPO-DA

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

**Lab Sample ID: MB 320-707208/1-A**  
**Matrix: Water**  
**Analysis Batch: 707310**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 707208**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		09/18/23 20:00	09/19/23 19:39	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		09/18/23 20:00	09/19/23 19:39	1
NEtFOSA	<0.87		2.0	0.87	ng/L		09/18/23 20:00	09/19/23 19:39	1
NMeFOSA	<0.43		2.0	0.43	ng/L		09/18/23 20:00	09/19/23 19:39	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		09/18/23 20:00	09/19/23 19:39	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		09/18/23 20:00	09/19/23 19:39	1
NMeFOSE	<1.4		4.0	1.4	ng/L		09/18/23 20:00	09/19/23 19:39	1
NEtFOSE	<0.85		2.0	0.85	ng/L		09/18/23 20:00	09/19/23 19:39	1
4:2 FTS	<0.24		2.0	0.24	ng/L		09/18/23 20:00	09/19/23 19:39	1
6:2 FTS	<2.5		5.0	2.5	ng/L		09/18/23 20:00	09/19/23 19:39	1
8:2 FTS	<0.46		2.0	0.46	ng/L		09/18/23 20:00	09/19/23 19:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		09/18/23 20:00	09/19/23 19:39	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		09/18/23 20:00	09/19/23 19:39	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		09/18/23 20:00	09/19/23 19:39	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		09/18/23 20:00	09/19/23 19:39	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	93		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C5 PFPeA	84		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C2 PFHxA	93		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C4 PFHpA	105		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C4 PFOA	106		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C5 PFNA	101		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C2 PFDA	96		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C2 PFUnA	97		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C2 PFDoA	97		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C2 PFTeDA	84		25 - 150	09/18/23 20:00	09/19/23 19:39	1

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

**Lab Sample ID: MB 320-707208/1-A**  
**Matrix: Water**  
**Analysis Batch: 707310**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 707208**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	94		25 - 150	09/18/23 20:00	09/19/23 19:39	1
18O2 PFHxS	97		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C4 PFOS	95		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C8 FOSA	100		10 - 150	09/18/23 20:00	09/19/23 19:39	1
d3-NMeFOSAA	97		25 - 150	09/18/23 20:00	09/19/23 19:39	1
d5-NEtFOSAA	96		25 - 150	09/18/23 20:00	09/19/23 19:39	1
d-N-MeFOSA-M	83		10 - 150	09/18/23 20:00	09/19/23 19:39	1
d-N-EtFOSA-M	89		10 - 150	09/18/23 20:00	09/19/23 19:39	1
d7-N-MeFOSE-M	98		10 - 150	09/18/23 20:00	09/19/23 19:39	1
d9-N-EtFOSE-M	96		10 - 150	09/18/23 20:00	09/19/23 19:39	1
M2-4:2 FTS	80		25 - 150	09/18/23 20:00	09/19/23 19:39	1
M2-6:2 FTS	77		25 - 150	09/18/23 20:00	09/19/23 19:39	1
M2-8:2 FTS	71		25 - 150	09/18/23 20:00	09/19/23 19:39	1
13C3 HFPO-DA	94		25 - 150	09/18/23 20:00	09/19/23 19:39	1

**Lab Sample ID: LLCS 320-707208/2-A**  
**Matrix: Water**  
**Analysis Batch: 707310**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 707208**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	8.00	7.90		ng/L		99	50 - 150
Perfluoropentanoic acid (PFPeA)	8.00	8.71		ng/L		109	50 - 150
Perfluorohexanoic acid (PFHxA)	8.00	8.00		ng/L		100	50 - 150
Perfluoroheptanoic acid (PFHpA)	8.00	8.26		ng/L		103	50 - 150
Perfluorooctanoic acid (PFOA)	8.00	8.63		ng/L		108	50 - 150
Perfluorononanoic acid (PFNA)	8.00	8.31		ng/L		104	50 - 150
Perfluorodecanoic acid (PFDA)	8.00	8.03		ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	8.00	8.61		ng/L		108	50 - 150
Perfluorododecanoic acid (PFDoA)	8.00	9.01		ng/L		113	50 - 150
Perfluorotridecanoic acid (PFTrDA)	8.00	8.45		ng/L		106	50 - 150
Perfluorotetradecanoic acid (PFTeA)	8.00	8.55		ng/L		107	50 - 150
Perfluorobutanesulfonic acid (PFBS)	7.10	6.93		ng/L		98	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	7.52	7.92		ng/L		105	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	7.30	7.14		ng/L		98	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	7.63	7.82		ng/L		102	50 - 150
Perfluorooctanesulfonic acid (PFOS)	7.44	7.48		ng/L		101	50 - 150
Perfluorononanesulfonic acid (PFNS)	7.70	7.61		ng/L		99	50 - 150
Perfluorodecanesulfonic acid (PFDS)	7.71	6.97		ng/L		90	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	7.76	7.20		ng/L		93	50 - 150

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

**Lab Sample ID: LLCS 320-707208/2-A**  
**Matrix: Water**  
**Analysis Batch: 707310**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 707208**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	8.00	8.00		ng/L		100	50 - 150
NEtFOSA	8.00	8.07		ng/L		101	50 - 150
NMeFOSA	8.00	7.87		ng/L		98	50 - 150
NMeFOSAA	8.00	7.87		ng/L		98	50 - 150
NEtFOSAA	8.00	7.48		ng/L		94	50 - 150
NMeFOSE	8.00	12.9	*+	ng/L		161	50 - 150
NEtFOSE	8.00	12.3	*+	ng/L		153	50 - 150
4:2 FTS	7.50	7.54		ng/L		100	50 - 150
6:2 FTS	7.62	8.08		ng/L		106	50 - 150
8:2 FTS	7.68	8.01		ng/L		104	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	8.31		ng/L		110	50 - 150
HFPO-DA (GenX)	8.00	8.29		ng/L		104	50 - 150
9Cl-PF3ONS	7.47	7.92		ng/L		106	50 - 150
11Cl-PF3OUdS	7.55	7.65		ng/L		101	50 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	92		25 - 150
13C5 PFPeA	82		25 - 150
13C2 PFHxA	97		25 - 150
13C4 PFHpA	97		25 - 150
13C4 PFOA	98		25 - 150
13C5 PFNA	100		25 - 150
13C2 PFDA	96		25 - 150
13C2 PFUnA	97		25 - 150
13C2 PFDoA	93		25 - 150
13C2 PFTeDA	91		25 - 150
13C3 PFBS	92		25 - 150
18O2 PFHxS	96		25 - 150
13C4 PFOS	96		25 - 150
13C8 FOSA	100		10 - 150
d3-NMeFOSAA	99		25 - 150
d5-NEtFOSAA	103		25 - 150
d-N-MeFOSA-M	82		10 - 150
d-N-EtFOSA-M	85		10 - 150
d7-N-MeFOSE-M	112		10 - 150
d9-N-EtFOSE-M	109		10 - 150
M2-4:2 FTS	81		25 - 150
M2-6:2 FTS	74		25 - 150
M2-8:2 FTS	73		25 - 150
13C3 HFPO-DA	90		25 - 150

**Lab Sample ID: LLCSD 320-707208/3-A**  
**Matrix: Water**  
**Analysis Batch: 707310**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 707208**

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	8.00	8.67		ng/L		108	50 - 150	9	30

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

**Lab Sample ID: LLCSD 320-707208/3-A**  
**Matrix: Water**  
**Analysis Batch: 707310**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 707208**

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	8.00	9.74		ng/L		122	50 - 150	11	30
Perfluorohexanoic acid (PFHxA)	8.00	8.93		ng/L		112	50 - 150	11	30
Perfluoroheptanoic acid (PFHpA)	8.00	8.69		ng/L		109	50 - 150	5	30
Perfluorooctanoic acid (PFOA)	8.00	9.12		ng/L		114	50 - 150	6	30
Perfluorononanoic acid (PFNA)	8.00	8.96		ng/L		112	50 - 150	8	30
Perfluorodecanoic acid (PFDA)	8.00	9.08		ng/L		113	50 - 150	12	30
Perfluoroundecanoic acid (PFUnA)	8.00	8.94		ng/L		112	50 - 150	4	30
Perfluorododecanoic acid (PFDoA)	8.00	9.91		ng/L		124	50 - 150	10	30
Perfluorotridecanoic acid (PFTrDA)	8.00	8.70		ng/L		109	50 - 150	3	30
Perfluorotetradecanoic acid (PFTeA)	8.00	8.75		ng/L		109	50 - 150	2	30
Perfluorobutanesulfonic acid (PFBS)	7.10	7.62		ng/L		107	50 - 150	9	30
Perfluoropentanesulfonic acid (PFPeS)	7.52	8.55		ng/L		114	50 - 150	8	30
Perfluorohexanesulfonic acid (PFHxS)	7.30	7.76		ng/L		106	50 - 150	8	30
Perfluoroheptanesulfonic acid (PFHpS)	7.63	8.45		ng/L		111	50 - 150	8	30
Perfluorooctanesulfonic acid (PFOS)	7.44	8.21		ng/L		110	50 - 150	9	30
Perfluorononanesulfonic acid (PFNS)	7.70	8.43		ng/L		110	50 - 150	10	30
Perfluorodecanesulfonic acid (PFDS)	7.71	7.96		ng/L		103	50 - 150	13	30
Perfluorododecanesulfonic acid (PFDoS)	7.76	7.16		ng/L		92	50 - 150	0.6	30
Perfluorooctanesulfonamide (FOSA)	8.00	8.38		ng/L		105	50 - 150	5	30
NEtFOSA	8.00	8.71		ng/L		109	50 - 150	8	30
NMeFOSA	8.00	9.19		ng/L		115	50 - 150	15	30
NMeFOSAA	8.00	8.77		ng/L		110	50 - 150	11	30
NEtFOSAA	8.00	8.41		ng/L		105	50 - 150	12	30
NMeFOSE	8.00	8.59	*1	ng/L		107	50 - 150	40	30
NEtFOSE	8.00	8.74	*1	ng/L		109	50 - 150	34	30
4:2 FTS	7.50	7.81		ng/L		104	50 - 150	4	30
6:2 FTS	7.62	8.81		ng/L		116	50 - 150	9	30
8:2 FTS	7.68	8.76		ng/L		114	50 - 150	9	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	8.89		ng/L		117	50 - 150	7	30
HFPO-DA (GenX)	8.00	8.35		ng/L		104	50 - 150	0.6	30
9Cl-PF3ONS	7.47	8.22		ng/L		110	50 - 150	4	30
11Cl-PF3OUdS	7.55	7.68		ng/L		102	50 - 150	0.4	30

Isotope Dilution	LLCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	93		25 - 150
13C5 PFPeA	82		25 - 150
13C2 PFHxA	96		25 - 150
13C4 PFHpA	100		25 - 150

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

**Lab Sample ID: LLCSD 320-707208/3-A**  
**Matrix: Water**  
**Analysis Batch: 707310**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 707208**

<i>Isotope Dilution</i>	<i>LLCSD %Recovery</i>	<i>LLCSD Qualifier</i>	<i>Limits</i>
13C4 PFOA	101		25 - 150
13C5 PFNA	101		25 - 150
13C2 PFDA	97		25 - 150
13C2 PFUnA	101		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	90		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	97		25 - 150
13C4 PFOS	96		25 - 150
13C8 FOSA	101		10 - 150
d3-NMeFOSAA	100		25 - 150
d5-NEtFOSAA	102		25 - 150
d-N-MeFOSA-M	82		10 - 150
d-N-EtFOSA-M	87		10 - 150
d7-N-MeFOSE-M	100		10 - 150
d9-N-EtFOSE-M	100		10 - 150
M2-4:2 FTS	82		25 - 150
M2-6:2 FTS	72		25 - 150
M2-8:2 FTS	70		25 - 150
13C3 HFPO-DA	94		25 - 150

**Lab Sample ID: MB 320-708551/1-A**  
**Matrix: Water**  
**Analysis Batch: 708624**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 708551**

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		09/24/23 19:30	09/25/23 18:21	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		09/24/23 19:30	09/25/23 18:21	1
NEtFOSA	<0.87		2.0	0.87	ng/L		09/24/23 19:30	09/25/23 18:21	1

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

**Lab Sample ID: MB 320-708551/1-A**  
**Matrix: Water**  
**Analysis Batch: 708624**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 708551**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	<0.43		2.0	0.43	ng/L		09/24/23 19:30	09/25/23 18:21	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		09/24/23 19:30	09/25/23 18:21	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		09/24/23 19:30	09/25/23 18:21	1
NMeFOSE	<1.4		4.0	1.4	ng/L		09/24/23 19:30	09/25/23 18:21	1
NEtFOSE	<0.85		2.0	0.85	ng/L		09/24/23 19:30	09/25/23 18:21	1
4:2 FTS	<0.24		2.0	0.24	ng/L		09/24/23 19:30	09/25/23 18:21	1
6:2 FTS	<2.5		5.0	2.5	ng/L		09/24/23 19:30	09/25/23 18:21	1
8:2 FTS	<0.46		2.0	0.46	ng/L		09/24/23 19:30	09/25/23 18:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		09/24/23 19:30	09/25/23 18:21	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		09/24/23 19:30	09/25/23 18:21	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		09/24/23 19:30	09/25/23 18:21	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		09/24/23 19:30	09/25/23 18:21	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C5 PFPeA	96		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C2 PFHxA	85		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C4 PFHpA	91		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C4 PFOA	89		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C5 PFNA	100		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C2 PFDA	96		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C2 PFUnA	106		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C2 PFDoA	92		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C2 PFTeDA	100		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C3 PFBS	93		25 - 150	09/24/23 19:30	09/25/23 18:21	1
18O2 PFHxS	101		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C4 PFOS	96		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C8 FOSA	100		10 - 150	09/24/23 19:30	09/25/23 18:21	1
d3-NMeFOSAA	95		25 - 150	09/24/23 19:30	09/25/23 18:21	1
d5-NEtFOSAA	96		25 - 150	09/24/23 19:30	09/25/23 18:21	1
d-N-MeFOSA-M	81		10 - 150	09/24/23 19:30	09/25/23 18:21	1
d-N-EtFOSA-M	82		10 - 150	09/24/23 19:30	09/25/23 18:21	1
d7-N-MeFOSE-M	107		10 - 150	09/24/23 19:30	09/25/23 18:21	1
d9-N-EtFOSE-M	107		10 - 150	09/24/23 19:30	09/25/23 18:21	1
M2-4:2 FTS	99		25 - 150	09/24/23 19:30	09/25/23 18:21	1
M2-6:2 FTS	102		25 - 150	09/24/23 19:30	09/25/23 18:21	1
M2-8:2 FTS	119		25 - 150	09/24/23 19:30	09/25/23 18:21	1
13C3 HFPO-DA	88		25 - 150	09/24/23 19:30	09/25/23 18:21	1

**Lab Sample ID: LCS 320-708551/2-A**  
**Matrix: Water**  
**Analysis Batch: 708624**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 708551**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	37.4		ng/L		94	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	37.9		ng/L		95	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	42.5		ng/L		106	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	38.2		ng/L		96	60 - 135

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

**Lab Sample ID: LCS 320-708551/2-A**  
**Matrix: Water**  
**Analysis Batch: 708624**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 708551**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	40.0	39.1		ng/L		98	60 - 135
Perfluorononanoic acid (PFNA)	40.0	40.7		ng/L		102	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	41.5		ng/L		104	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	38.2		ng/L		95	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	39.9		ng/L		100	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	37.2		ng/L		93	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	35.2		ng/L		88	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	34.4		ng/L		97	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	36.7		ng/L		98	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.9		ng/L		96	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.2		ng/L		98	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	35.6		ng/L		96	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	35.8		ng/L		93	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	36.6		ng/L		95	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	33.6		ng/L		87	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	36.4		ng/L		91	60 - 135
NEtFOSA	40.0	41.3		ng/L		103	60 - 135
NMeFOSA	40.0	39.9		ng/L		100	60 - 135
NMeFOSAA	40.0	39.6		ng/L		99	60 - 135
NEtFOSAA	40.0	38.3		ng/L		96	60 - 135
NMeFOSE	40.0	37.5		ng/L		94	60 - 135
NEtFOSE	40.0	36.6		ng/L		92	60 - 135
4:2 FTS	37.5	39.1		ng/L		104	60 - 135
6:2 FTS	38.1	32.5		ng/L		85	60 - 135
8:2 FTS	38.4	39.8		ng/L		104	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	33.7		ng/L		89	60 - 135
HFPO-DA (GenX)	40.0	40.6		ng/L		102	60 - 135
9Cl-PF3ONS	37.4	34.9		ng/L		93	60 - 135
11Cl-PF3OUdS	37.8	33.9		ng/L		90	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	92		25 - 150
13C5 PFPeA	91		25 - 150
13C2 PFHxA	84		25 - 150
13C4 PFHpA	94		25 - 150
13C4 PFOA	90		25 - 150
13C5 PFNA	92		25 - 150
13C2 PFDA	92		25 - 150

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

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

Lab Sample ID: LCS 320-708551/2-A  
 Matrix: Water  
 Analysis Batch: 708624

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 708551

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C2 PFUnA	94		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	96		25 - 150
13C3 PFBS	88		25 - 150
18O2 PFHxS	98		25 - 150
13C4 PFOS	99		25 - 150
13C8 FOSA	101		10 - 150
d3-NMeFOSAA	92		25 - 150
d5-NEtFOSAA	103		25 - 150
d-N-MeFOSA-M	82		10 - 150
d-N-EtFOSA-M	82		10 - 150
d7-N-MeFOSE-M	104		10 - 150
d9-N-EtFOSE-M	99		10 - 150
M2-4:2 FTS	86		25 - 150
M2-6:2 FTS	109		25 - 150
M2-8:2 FTS	102		25 - 150
13C3 HFPO-DA	87		25 - 150



# QC Association Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

## LCMS

### Prep Batch: 707208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-104488-1 - DL	MW-01-202308	Total/NA	Water	3535	
320-104488-1	MW-01-202308	Total/NA	Water	3535	
320-104488-2 - DL	MW-02-202308	Total/NA	Water	3535	
320-104488-2	MW-02-202308	Total/NA	Water	3535	
320-104488-3	MW-03-202308	Total/NA	Water	3535	
320-104488-4 - DL	MW-04-202308	Total/NA	Water	3535	
320-104488-4	MW-04-202308	Total/NA	Water	3535	
320-104488-5	MW-05-202308	Total/NA	Water	3535	
320-104488-6	MW-06-202308	Total/NA	Water	3535	
320-104488-8	MW-08-202308	Total/NA	Water	3535	
320-104488-9 - DL	DUP-09-202308	Total/NA	Water	3535	
320-104488-9	DUP-09-202308	Total/NA	Water	3535	
320-104488-10	EB-09-202308	Total/NA	Water	3535	
320-104488-11	EB-10-202308	Total/NA	Water	3535	
320-104488-12	FB-02-202308	Total/NA	Water	3535	
320-104488-13	PZ-01-202308	Total/NA	Water	3535	
MB 320-707208/1-A	Method Blank	Total/NA	Water	3535	
LLCS 320-707208/2-A	Lab Control Sample	Total/NA	Water	3535	
LLCSD 320-707208/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 707310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-104488-1	MW-01-202308	Total/NA	Water	537 (modified)	707208
320-104488-2	MW-02-202308	Total/NA	Water	537 (modified)	707208
320-104488-3	MW-03-202308	Total/NA	Water	537 (modified)	707208
320-104488-4	MW-04-202308	Total/NA	Water	537 (modified)	707208
320-104488-5	MW-05-202308	Total/NA	Water	537 (modified)	707208
320-104488-6	MW-06-202308	Total/NA	Water	537 (modified)	707208
320-104488-8	MW-08-202308	Total/NA	Water	537 (modified)	707208
320-104488-9	DUP-09-202308	Total/NA	Water	537 (modified)	707208
320-104488-10	EB-09-202308	Total/NA	Water	537 (modified)	707208
320-104488-11	EB-10-202308	Total/NA	Water	537 (modified)	707208
320-104488-12	FB-02-202308	Total/NA	Water	537 (modified)	707208
320-104488-13	PZ-01-202308	Total/NA	Water	537 (modified)	707208
MB 320-707208/1-A	Method Blank	Total/NA	Water	537 (modified)	707208
LLCS 320-707208/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	707208
LLCSD 320-707208/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	707208

### Analysis Batch: 707739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-104488-1 - DL	MW-01-202308	Total/NA	Water	537 (modified)	707208
320-104488-2 - DL	MW-02-202308	Total/NA	Water	537 (modified)	707208
320-104488-4 - DL	MW-04-202308	Total/NA	Water	537 (modified)	707208
320-104488-9 - DL	DUP-09-202308	Total/NA	Water	537 (modified)	707208

### Prep Batch: 708551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-104488-7	MW-07-202308	Total/NA	Water	3535	
MB 320-708551/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-708551/2-A	Lab Control Sample	Total/NA	Water	3535	

Eurofins Sacramento

# QC Association Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

## LCMS

### Analysis Batch: 708624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-104488-7	MW-07-202308	Total/NA	Water	537 (modified)	708551
MB 320-708551/1-A	Method Blank	Total/NA	Water	537 (modified)	708551
LCS 320-708551/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	708551

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# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-01-202308**

**Lab Sample ID: 320-104488-1**

**Date Collected: 08/30/23 09:42**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		288.8 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)	DL	10	1 mL	1 mL	707739	09/20/23 16:20	RS1	EET SAC
Total/NA	Prep	3535			288.8 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/19/23 21:22	K1S	EET SAC

**Client Sample ID: MW-02-202308**

**Lab Sample ID: 320-104488-2**

**Date Collected: 08/30/23 13:37**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		290.9 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)	DL	10	1 mL	1 mL	707739	09/20/23 16:31	RS1	EET SAC
Total/NA	Prep	3535			290.9 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/19/23 21:56	K1S	EET SAC

**Client Sample ID: MW-03-202308**

**Lab Sample ID: 320-104488-3**

**Date Collected: 08/29/23 18:16**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280.8 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/19/23 22:08	K1S	EET SAC

**Client Sample ID: MW-04-202308**

**Lab Sample ID: 320-104488-4**

**Date Collected: 08/30/23 14:43**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		291.7 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)	DL	20	1 mL	1 mL	707739	09/20/23 16:43	RS1	EET SAC
Total/NA	Prep	3535			291.7 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/19/23 22:19	K1S	EET SAC

**Client Sample ID: MW-05-202308**

**Lab Sample ID: 320-104488-5**

**Date Collected: 08/30/23 11:43**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			293.8 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/19/23 22:31	K1S	EET SAC



# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: MW-06-202308**

**Lab Sample ID: 320-104488-6**

Date Collected: 08/29/23 16:54

Matrix: Water

Date Received: 09/01/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			296.8 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/19/23 22:42	K1S	EET SAC

**Client Sample ID: MW-07-202308**

**Lab Sample ID: 320-104488-7**

Date Collected: 08/29/23 14:26

Matrix: Water

Date Received: 09/01/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			294.3 mL	10.0 mL	708551	09/24/23 19:30	ERR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	708624	09/25/23 18:42	C1P	EET SAC

**Client Sample ID: MW-08-202308**

**Lab Sample ID: 320-104488-8**

Date Collected: 08/29/23 12:43

Matrix: Water

Date Received: 09/01/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			299.8 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/19/23 23:28	K1S	EET SAC

**Client Sample ID: DUP-09-202308**

**Lab Sample ID: 320-104488-9**

Date Collected: 08/30/23 00:00

Matrix: Water

Date Received: 09/01/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		303.9 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)	DL	20	1 mL	1 mL	707739	09/20/23 16:54	RS1	EET SAC
Total/NA	Prep	3535			303.9 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/19/23 23:39	K1S	EET SAC

**Client Sample ID: EB-09-202308**

**Lab Sample ID: 320-104488-10**

Date Collected: 08/30/23 14:30

Matrix: Water

Date Received: 09/01/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			236.4 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/19/23 23:51	K1S	EET SAC

**Client Sample ID: EB-10-202308**

**Lab Sample ID: 320-104488-11**

Date Collected: 08/30/23 14:40

Matrix: Water

Date Received: 09/01/23 09:30

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	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/20/23 00:02	K1S	EET SAC

Eurofins Sacramento

# Lab Chronicle

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-104488-1

**Client Sample ID: FB-02-202308**

**Lab Sample ID: 320-104488-12**

**Date Collected: 08/30/23 14:50**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			287.4 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/20/23 00:14	K1S	EET SAC

**Client Sample ID: PZ-01-202308**

**Lab Sample ID: 320-104488-13**

**Date Collected: 08/30/23 12:38**

**Matrix: Water**

**Date Received: 09/01/23 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			274.1 mL	10.0 mL	707208	09/18/23 20:00	PV	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	707310	09/20/23 00:25	K1S	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: 320-104488-1

## 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	08-31-24

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# Method Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-104488-1

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: 320-104488-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-104488-1	MW-01-202308	Water	08/30/23 09:42	09/01/23 09:30
320-104488-2	MW-02-202308	Water	08/30/23 13:37	09/01/23 09:30
320-104488-3	MW-03-202308	Water	08/29/23 18:16	09/01/23 09:30
320-104488-4	MW-04-202308	Water	08/30/23 14:43	09/01/23 09:30
320-104488-5	MW-05-202308	Water	08/30/23 11:43	09/01/23 09:30
320-104488-6	MW-06-202308	Water	08/29/23 16:54	09/01/23 09:30
320-104488-7	MW-07-202308	Water	08/29/23 14:26	09/01/23 09:30
320-104488-8	MW-08-202308	Water	08/29/23 12:43	09/01/23 09:30
320-104488-9	DUP-09-202308	Water	08/30/23 00:00	09/01/23 09:30
320-104488-10	EB-09-202308	Water	08/30/23 14:30	09/01/23 09:30
320-104488-11	EB-10-202308	Water	08/30/23 14:40	09/01/23 09:30
320-104488-12	FB-02-202308	Water	08/30/23 14:50	09/01/23 09:30
320-104488-13	PZ-01-202308	Water	08/30/23 12:38	09/01/23 09:30



# Chain of Custody Record

706688



Environment Testing America

TAL-9210

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact  
 Company Name: TRC Env. -  
 Address: 999 Fourier Dr. Ste 101  
 City/State/Zip: Madison, WI 53717  
 Phone: 608-234-7371  
 Fax:  
 Project Name: HockGen Energy  
 Site: Cambridge, WI  
 PO #: will e-mail PM

Project Manager: Jeff Ramey  
 Tel/Email: 414-294-9247

Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below  
 2 weeks  
 1 week  
 2 days  
 1 day

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:
8/30/23	942	G	W	2	N	N	
8/30/23	1337	G	W	2	N	N	
8/30/23	1816	G	W	2	N	N	
8/30/23	1443	G	W	2	N	N	
8/30/23	1443	G	W	2	N	N	
8/29/23	1654	G	W	2	N	N	
8/29/23	1426	G	W	2	N	N	
8/29/23	1273	G	W	2	N	N	
8/30/23	-	G	W	2	N	N	
8/30/23	1470	G	W	2	N	N	
8/30/23	1440	G	W	2	N	N	
8/29/23	1450	G	W	2	N	N	

Site Contact: Marshal Toft  
 Date: 8/30/23  
 Carrier: FedEx  
 Lab Contact:  
 COC No: 1 of 2 COCs  
 Sampler:  
 For Lab Use Only:  
 Walk-in Client:  
 Lab Sampling:  
 Job / SDG No.:  
 320-10488 Chain of Custody

Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

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

Special Instructions/QC Requirements & Comments:

Custody Seal No.:  
 Company: TRC  
 Date/Time: 8/31/23  
 Received by: [Signature]  
 Date/Time: 9/11/23 930  
 Company: [Signature]  
 Date/Time: [Signature]  
 Received in Laboratory by: [Signature]  
 Date/Time: [Signature]



# Chain of Custody Record

706689



Environment Testing  
America

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TAL-8210

Regulatory Program:  DW  NPDES  RCRA  Other: \_\_\_\_\_

Client Contact  
Company Name: TRC Env. COC No: 2 of 2 COCs

Address: 999 Fournier Dr. Ste 101 Date: 8/30/23  
City/State/Zip: Madison, WI 53717 Carrier: FedEx

Phone: 608-734-7374 Project Manager: Jeff Ramsey Analysis Turnaround Time  
Fax: \_\_\_\_\_ TAT if different from Below: \_\_\_\_\_

Project Name: Rock Gen Energy  CALENDAR DAYS  WORKING DAYS  
Site: Cambridge, WI  2 weeks  
PO # Will E-mail.  1 week  
 2 days  
 1 day

Sample Identification  
PZ-01-202308

Sample Date: 8/30/23 Sample Time: 1238 Sample Type: G Matrix: GW # of Cont.: 2

Site Contact: Marshal Toftle Lab Contact: \_\_\_\_\_  
Perform MS/MSD (Y/N) Y Filtered Sample (Y/N) N

For Lab Use Only: PPAS (W33)

Walk-in Client: \_\_\_\_\_ Job / SDG No.: \_\_\_\_\_

Lab Sampling: \_\_\_\_\_

Sample Specific Notes:

Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
<u>8/30/23</u>	<u>1238</u>	<u>G</u>	<u>GW</u>	<u>2</u>

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4  
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

Custody Seal No.: \_\_\_\_\_ Cooler Temp. (°C): 4.6 Obs'd: 4.6 Corr'd: 6.6 Therm ID No.: 614

Relinquished by: Will E-mail. Company: TRC Date/Time: 8/31/23 1830  
Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_ 930

Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Received in Laboratory by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_





Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320  
104488

Tracking #: 7832 0161 1836

Job: \_\_\_\_\_

SO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier  
GSL / OnTrac / Goldstreak / USPS / Other \_\_\_\_\_

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

Therm. ID: <u>L10</u> Corr. Factor: (+/-) _____ °C	Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____																				
Ice <u>—</u> Wet _____ Gel _____ Other _____																					
Cooler Custody Seal: <u>2099492</u>																					
Cooler ID: _____																					
Temp Observed: <u>4.6</u> °C Corrected: <u>4.6</u> °C From: Temp Blank <input type="checkbox"/> Sample <input checked="" type="checkbox"/>																					
<b>Opening/Processing The Shipment</b>																					
Cooler compromised/tampered with? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA																					
Cooler Temperature is acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Frozen samples show signs of thaw? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Initials: <u>JF</u> Date: <u>9/11/23</u>																					
<b>Unpacking/Labeling The Samples</b>	Trizma Lot #(s): _____ _____ _____  Ammonium Acetate Lot #(s): _____ _____ _____																				
Containers are not broken or leaking? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Samples compromised/tampered with? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA																					
COC is complete w/o discrepancies? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample custody seal? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Sample containers have legible labels? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample date/times are provided? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Appropriate containers are used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample bottles are completely filled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample preservatives verified? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Is the Field Sampler's name on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<table border="0"> <tr> <td><b>Login Completion</b></td> <td><u>Yes</u></td> <td><u>No</u></td> <td><u>NA</u></td> </tr> <tr> <td>Receipt Temperature on COC?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>NCM Filed?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Samples received within hold time?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Log Release checked in TALS?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<b>Login Completion</b>	<u>Yes</u>	<u>No</u>	<u>NA</u>	Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM Filed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Login Completion</b>		<u>Yes</u>	<u>No</u>	<u>NA</u>																	
Receipt Temperature on COC?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
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Samples received within hold time?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
Log Release checked in TALS?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
Samples w/o discrepancies? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Zero headspace?* <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Alkalinity has no headspace? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Perchlorate has headspace? (Methods 314, 331, 6850) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Multiphasic samples are not present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")																					
Initials: <u>JF</u> Date: <u>9/11/23</u>	Initials: <u>JF</u> Date: <u>9/11/23</u>																				



# Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-104488-1

**Login Number: 104488**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator: Fisher, Jamyiah L**

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