

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

Attn: Jeff Ramey  
TRC Environmental Corporation  
6737 W. Washington St., Suite 2100  
West Allis, Wisconsin 53214

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**JOB DESCRIPTION**

451482 RockGen

**JOB NUMBER**

320-93224-1

## Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

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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Authorized for release by  
David Alltucker, Project Manager I  
[David.Alltucker@et.eurofinsus.com](mailto:David.Alltucker@et.eurofinsus.com)  
(916)374-4383



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# Definitions/Glossary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
H	Sample was prepped or analyzed beyond the specified holding time
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

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## Job ID: 320-93224-1

### Laboratory: Eurofins Sacramento

#### Narrative

#### Job Narrative 320-93224-1

Revision 12-5-2022: This report has been revised to correct sampling date.

#### Receipt

The samples were received on 10/14/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6° C and 5.6° C.

#### Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): Sample FB-01-202210 (320-93224-42) client label does not list sample date and sample time. The lab logged in the sample date and time according to the COC.

#### LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. MP-01-(155-195)-202210 (320-93224-5) and MP-01-(121-152)-202210 (320-93224-6)

Method 537 (modified): The closing continuing calibration verification (CCVC) associated with batch 320-628581 recovered above the upper control limit for NMeFOSE. The client sample associated with this CCV was non-detects for the affected analyte; therefore, the data have been reported.

Method 537 (modified): Results for samples MP-01-(198-220)-202210 (320-93224-4), MP-01-(155-195)-202210 (320-93224-5), MP-01-(121-152)-202210 (320-93224-6), MP-01-(091-118)-202210 (320-93224-7) and MP-01-(051-088)-202210 (320-93224-8) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): Results for samples MP-02-(198-220)-202210 (320-93224-12), MP-02-(153-195)-202210-A (320-93224-13), MP-02-(153-195)-202210-B (320-93224-14), MP-02-(153-195)-202210-C (320-93224-15) and MP-03-(160-187)-202210 (320-93224-20) were reported from the analysis of a diluted extract due to high concentration. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): Results for sample MP-04-(155-192)-202210 (320-93224-28) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Results for samples MP-04-(115-152)-202210 (320-93224-29), MP-04-(080-112)-202210 (320-93224-30) and DUP-02-202210 (320-93224-34) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): Results for samples DUP-03-202210 (320-93224-35), DUP-04-202210 (320-93224-36), MW-01-202210 (320-93224-43), MW-02-202210 (320-93224-44), MW-04-202210 (320-93224-46), MW-05-202210 (320-93224-47) and DUP-05-202210 (320-93224-52) 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): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: MP-01-(253-274)-202210 (320-93224-2), MP-01-(223-250)-202210 (320-93224-3), MP-01-(198-220)-202210 (320-93224-4), MP-01-(155-195)-202210 (320-93224-5), MP-01-(121-152)-202210 (320-93224-6), MP-01-(051-088)-202210 (320-93224-8), MP-02-(279-300)-202210 (320-93224-9) and MP-02-(253-276)-202210 (320-93224-10). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The out of control IDA's were confirmed, and the original results reported.

# Case Narrative

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

## Job ID: 320-93224-1 (Continued)

### Laboratory: Eurofins Sacramento (Continued)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: MP-02-(223-250)-202210 (320-93224-11), MP-03-(120-157)-202210 (320-93224-21) and MP-03-(046-080)-202210 (320-93224-23). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. Per client request, the samples were re-analyzed to confirm the out of control IDA, with concurring results. The original analysis was reported.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: MP-03-(280-300)-202210 (320-93224-16). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The out of control IDA was confirmed by re-analysis. The original analysis was reported.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: MW-04-202210 (320-93224-46). This sample was analyzed undiluted with acceptable results. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

### Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-625548 and 320-625548.

Method 3535: The following samples in preparation batch 320-625548 and 320-625548 were yellow in color prior to extraction. MP-01-(277-293)-202210 (320-93224-1), MP-01-(253-274)-202210 (320-93224-2), MP-01-(223-250)-202210 (320-93224-3), MP-01-(198-220)-202210 (320-93224-4), MP-01-(155-195)-202210 (320-93224-5), MP-01-(091-118)-202210 (320-93224-7), MP-01-(051-088)-202210 (320-93224-8), MP-02-(279-300)-202210 (320-93224-9) and MP-02-(253-276)-202210 (320-93224-10) preparation batch 320-625548

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-625842.

Method 3535: The following samples in preparation batch 320-625842 were brown in color prior to extraction. MP-02-(153-195)-202210-A (320-93224-13), MP-02-(153-195)-202210-B (320-93224-14), MP-02-(153-195)-202210-C (320-93224-15), MP-03-(280-300)-202210 (320-93224-16), MP-03-(245-277)-202210 (320-93224-17) and MP-03-(220-242)-202210 (320-93224-18)

Method 3535: The following samples in preparation batch 320-625842 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. MP-02-(153-195)-202210-A (320-93224-13), MP-02-(153-195)-202210-B (320-93224-14) and MP-02-(153-195)-202210-C (320-93224-15)

Method 3535: The following samples in preparation batch 320-625842 were observed to have floating particulates present in the sample bottle. MP-03-(220-242)-202210 (320-93224-18) and MP-03-(190-217)-202210 (320-93224-19)

Method 3535: Due to the excess amount of sediments, the following samples were centrifuged and decanted into new 250 mL container: MP-02-(153-195)-202210-A (320-93224-13), MP-02-(153-195)-202210-B (320-93224-14) and MP-02-(153-195)-202210-C (320-93224-15). After centrifuging and decanting, the samples were fortified with IDA and then extracted. preparation batch 320-625842

Method 3535: During the solid phase extraction process, the following sample contained non-settable particulates which clogged the solid phase extraction column: MP-03-(220-242)-202210 (320-93224-18). preparation batch 320-625842

Method 3535: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: MP-02-(153-195)-202210-C (320-93224-15), MP-03-(190-217)-202210 (320-93224-19) and MP-03-(046-080)-202210 (320-93224-23). preparation batch 320-625842

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-625844.

Method 3535: The following samples in preparation batch 320-625844 were light brown in color prior to extraction. MP-04-

# Case Narrative

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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## Job ID: 320-93224-1 (Continued)

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### Laboratory: Eurofins Sacramento (Continued)

(195-217)-202210 (320-93224-27), DUP-01-202210 (320-93224-33) and DUP-02-202210 (320-93224-34)

Method 3535: The following samples in preparation batch 320-625844 were observed to have floating particulates present in the sample bottle. MP-04-(195-217)-202210 (320-93224-27), DUP-01-202210 (320-93224-33) and DUP-02-202210 (320-93224-34)

Method 3535: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: MP-04-(220-242)-202210 (320-93224-26), MP-04-(155-192)-202210 (320-93224-28), MP-04-(115-152)-202210 (320-93224-29), MP-04-(080-112)-202210 (320-93224-30), MP-04-(048-077)-202210 (320-93224-31), MP-05-(SWL-065)-202210 (320-93224-32) and DUP-01-202210 (320-93224-33). preparation batch 320-625844

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-625994.

Method 3535: The following sample in preparation batch 320-625994 was observed to have floating particulates present in the sample bottle prior to extraction. DUP-04-202210 (320-93224-36)

Method 3535: The following samples in preparation batch 320-625994 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. MW-05-202210 (320-93224-47) and PZ-01-202210 (320-93224-50)

Method 3535: During the solid phase extraction process, the following sample contained non-settable particulates which clogged the solid phase extraction column: DUP-04-202210 (320-93224-36). preparation batch 320-625994

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: 320-93224-1

## Client Sample ID: MP-01-(277-293)-202210

## Lab Sample ID: 320-93224-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.0	J	5.5	2.7	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	20		2.2	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	16		2.2	0.64	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.9		2.2	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	12		2.2	0.94	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.77	J	2.2	0.30	ng/L	1		537 (modified)	Total/NA
4:2 FTS	1.2	J	2.2	0.27	ng/L	1		537 (modified)	Total/NA
6:2 FTS	200		5.5	2.8	ng/L	1		537 (modified)	Total/NA
8:2 FTS	12		2.2	0.51	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-01-(253-274)-202210

## Lab Sample ID: 320-93224-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.62	J	2.1	0.52	ng/L	1		537 (modified)	Total/NA
6:2 FTS	4.5	J	5.3	2.6	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-01-(223-250)-202210

## Lab Sample ID: 320-93224-3

No Detections.

## Client Sample ID: MP-01-(198-220)-202210

## Lab Sample ID: 320-93224-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	12		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	52		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	42		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	15		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	32		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.5	J	2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.57	J	2.0	0.54	ng/L	1		537 (modified)	Total/NA
4:2 FTS	3.2		2.0	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	27		2.0	0.46	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	530		25	12	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MP-01-(155-195)-202210

## Lab Sample ID: 320-93224-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	330		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	65		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	5.6		2.0	0.31	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.81	J	2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.1		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	1.2	J I	2.0	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		2.0	0.54	ng/L	1		537 (modified)	Total/NA
4:2 FTS	88		2.0	0.24	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1800		40	9.9	ng/L	20		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1300		40	12	ng/L	20		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	490		40	5.0	ng/L	20		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1200		40	17	ng/L	20		537 (modified)	Total/NA
6:2 FTS - DL	6800		100	50	ng/L	20		537 (modified)	Total/NA
8:2 FTS - DL	670		40	9.3	ng/L	20		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento



# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(121-152)-202210**

**Lab Sample ID: 320-93224-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	360		5.2	2.5	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	72		2.1	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	5.2		2.1	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	2.1	0.21	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.89	J	2.1	0.31	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.7		2.1	0.59	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	1.0	J I	2.1	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	20		2.1	0.56	ng/L	1		537 (modified)	Total/NA
4:2 FTS	88		2.1	0.25	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1800		41	10	ng/L	20		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1500		41	12	ng/L	20		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	590		41	5.2	ng/L	20		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1300		41	18	ng/L	20		537 (modified)	Total/NA
6:2 FTS - DL	7300		100	52	ng/L	20		537 (modified)	Total/NA
8:2 FTS - DL	710		41	9.5	ng/L	20		537 (modified)	Total/NA

**Client Sample ID: MP-01-(091-118)-202210**

**Lab Sample ID: 320-93224-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	150		5.4	2.6	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	220		2.1	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	390		2.1	0.91	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	26		2.1	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	3.4		2.1	0.33	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.48	J	2.1	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.1		2.1	0.61	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.7		2.1	0.58	ng/L	1		537 (modified)	Total/NA
4:2 FTS	33		2.1	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	660		43	11	ng/L	20		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	570		43	12	ng/L	20		537 (modified)	Total/NA
6:2 FTS - DL	4400		110	54	ng/L	20		537 (modified)	Total/NA
8:2 FTS - DL	390		43	9.9	ng/L	20		537 (modified)	Total/NA

**Client Sample ID: MP-01-(051-088)-202210**

**Lab Sample ID: 320-93224-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	89		2.5	0.34	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	33		2.5	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	2.5	0.25	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.86	J	2.5	0.37	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.9		2.5	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	21		2.5	0.67	ng/L	1		537 (modified)	Total/NA
4:2 FTS	99		2.5	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	580		120	60	ng/L	20		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	2800		50	12	ng/L	20		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	2100		50	14	ng/L	20		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	1000		50	6.2	ng/L	20		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1700		50	21	ng/L	20		537 (modified)	Total/NA
6:2 FTS - DL	8000		120	62	ng/L	20		537 (modified)	Total/NA
8:2 FTS - DL	2800		50	11	ng/L	20		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

## Client Sample ID: MP-02-(279-300)-202210

## Lab Sample ID: 320-93224-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.63	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-02-(253-276)-202210

## Lab Sample ID: 320-93224-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.0	J	2.1	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.98	J I	2.1	0.60	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.1	J	2.1	0.89	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-02-(223-250)-202210

## Lab Sample ID: 320-93224-11

No Detections.

## Client Sample ID: MP-02-(198-220)-202210

## Lab Sample ID: 320-93224-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	33		5.2	2.5	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	180		2.1	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	99		2.1	0.61	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	33		2.1	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	36		2.1	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.3		2.1	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.85	J	2.1	0.60	ng/L	1		537 (modified)	Total/NA
4:2 FTS	6.3		2.1	0.25	ng/L	1		537 (modified)	Total/NA
8:2 FTS	20		2.1	0.48	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	610		26	13	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MP-02-(153-195)-202210-A

## Lab Sample ID: 320-93224-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	71		5.2	2.5	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	410		2.1	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	230		2.1	0.60	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	99		2.1	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	120		2.1	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	18		2.1	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	3.3		2.1	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.54	J	2.1	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.81	J	2.1	0.59	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.4		2.1	0.56	ng/L	1		537 (modified)	Total/NA
4:2 FTS	3.2		2.1	0.25	ng/L	1		537 (modified)	Total/NA
8:2 FTS	140		2.1	0.48	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	920		26	13	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MP-02-(153-195)-202210-B

## Lab Sample ID: 320-93224-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	73		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	360		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	220		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	99		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	110		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	12		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.3		2.0	0.31	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: 320-93224-1

## Client Sample ID: MP-02-(153-195)-202210-B (Continued)

Lab Sample ID: 320-93224-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.45	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.91	J	2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.0		2.0	0.54	ng/L	1		537 (modified)	Total/NA
4:2 FTS	4.4		2.0	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	120		2.0	0.46	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	640		25	13	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MP-02-(153-195)-202210-C

Lab Sample ID: 320-93224-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	77		5.3	2.5	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	360		2.1	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	200		2.1	0.61	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	94		2.1	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	100		2.1	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	13		2.1	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.6		2.1	0.33	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.41	J	2.1	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.99	J	2.1	0.60	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		2.1	0.57	ng/L	1		537 (modified)	Total/NA
4:2 FTS	3.6		2.1	0.25	ng/L	1		537 (modified)	Total/NA
8:2 FTS	150		2.1	0.48	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	920		26	13	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MP-03-(280-300)-202210

Lab Sample ID: 320-93224-16

No Detections.

## Client Sample ID: MP-03-(245-277)-202210

Lab Sample ID: 320-93224-17

No Detections.

## Client Sample ID: MP-03-(220-242)-202210

Lab Sample ID: 320-93224-18

No Detections.

## Client Sample ID: MP-03-(190-217)-202210

Lab Sample ID: 320-93224-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	3.2		2.2	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0	J	2.2	0.63	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.6	J	2.2	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.0	J	2.2	0.93	ng/L	1		537 (modified)	Total/NA
6:2 FTS	15		5.5	2.7	ng/L	1		537 (modified)	Total/NA
8:2 FTS	1.2	J	2.2	0.50	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-03-(160-187)-202210

Lab Sample ID: 320-93224-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	51		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	330		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	160		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	69		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	63		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.6		2.0	0.27	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: 320-93224-1

## Client Sample ID: MP-03-(160-187)-202210 (Continued)

Lab Sample ID: 320-93224-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.75	J	2.0	0.31	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.26	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.91	J	2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.0		2.0	0.54	ng/L	1		537 (modified)	Total/NA
4:2 FTS	3.6		2.0	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	36		2.0	0.46	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	460		25	13	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MP-03-(120-157)-202210

Lab Sample ID: 320-93224-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	19		5.1	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	29		2.0	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	16		2.0	0.59	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	13		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	9.1		2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.59	J	2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.66	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.9		2.0	0.55	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-03-(083-117)-202210

Lab Sample ID: 320-93224-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	27		5.2	2.5	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	48		2.1	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	24		2.1	0.61	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	50		2.1	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	20		2.1	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.2		2.1	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.78	J	2.1	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.52	J	2.1	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.5	J	2.1	0.57	ng/L	1		537 (modified)	Total/NA
6:2 FTS	8.5		5.2	2.6	ng/L	1		537 (modified)	Total/NA
8:2 FTS	24		2.1	0.48	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-03-(046-080)-202210

Lab Sample ID: 320-93224-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	30		6.1	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	92		2.4	0.60	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	48		2.4	0.71	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	55		2.4	0.31	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	12		2.4	1.0	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.1	J	2.4	0.33	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.55	J	2.4	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	0.57	J	2.4	0.56	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-04-(275-291)-202210

Lab Sample ID: 320-93224-24

No Detections.

## Client Sample ID: MP-04-(245-272)-202210

Lab Sample ID: 320-93224-25

No Detections.

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: 320-93224-1

## Client Sample ID: MP-04-(220-242)-202210

## Lab Sample ID: 320-93224-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.24	J	2.3	0.23	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-04-(195-217)-202210

## Lab Sample ID: 320-93224-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	5.4		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.8		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.0	J	2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.0		2.0	0.84	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.36	J	2.0	0.24	ng/L	1		537 (modified)	Total/NA
6:2 FTS	44		5.0	2.5	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-04-(155-192)-202210

## Lab Sample ID: 320-93224-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	33		5.4	2.6	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	150		2.2	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	100		2.2	0.63	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	31		2.2	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	34		2.2	0.92	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.8	J	2.2	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.69	J	2.2	0.62	ng/L	1		537 (modified)	Total/NA
4:2 FTS	6.0		2.2	0.26	ng/L	1		537 (modified)	Total/NA
8:2 FTS	27		2.2	0.50	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	690	H	27	13	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MP-04-(115-152)-202210

## Lab Sample ID: 320-93224-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	220		5.3	2.5	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	210		2.1	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	320		2.1	0.90	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	16		2.1	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.1	J	2.1	0.33	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.2	J	2.1	0.21	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.1	J	2.1	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.8		2.1	0.60	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.4		2.1	0.57	ng/L	1		537 (modified)	Total/NA
4:2 FTS	67		2.1	0.25	ng/L	1		537 (modified)	Total/NA
8:2 FTS	250		2.1	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1100		110	26	ng/L	50		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	770		110	31	ng/L	50		537 (modified)	Total/NA
6:2 FTS - DL	4000		260	130	ng/L	50		537 (modified)	Total/NA

## Client Sample ID: MP-04-(080-112)-202210

## Lab Sample ID: 320-93224-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	140		5.6	2.7	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	87		2.2	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	130		2.2	0.95	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.9		2.2	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.72	J	2.2	0.22	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: 320-93224-1

## Client Sample ID: MP-04-(080-112)-202210 (Continued)

Lab Sample ID: 320-93224-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanesulfonic acid (PFPeS)	0.38	J	2.2	0.33	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.9	J	2.2	0.64	ng/L	1		537 (modified)	Total/NA
4:2 FTS	28		2.2	0.27	ng/L	1		537 (modified)	Total/NA
8:2 FTS	12		2.2	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	910		22	5.5	ng/L	10		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	490		22	6.5	ng/L	10		537 (modified)	Total/NA
6:2 FTS - DL	1400		56	28	ng/L	10		537 (modified)	Total/NA

## Client Sample ID: MP-04-(048-077)-202210

Lab Sample ID: 320-93224-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	13		6.4	3.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	59		2.6	0.63	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	32		2.6	0.74	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.6		2.6	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.8		2.6	1.1	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.79	J	2.6	0.26	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.37	J	2.6	0.31	ng/L	1		537 (modified)	Total/NA
6:2 FTS	19		6.4	3.2	ng/L	1		537 (modified)	Total/NA
8:2 FTS	0.71	J	2.6	0.59	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MP-05-(SWL-065)-202210

Lab Sample ID: 320-93224-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	24		5.9	2.8	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	63		2.4	0.58	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	31		2.4	0.68	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	24		2.4	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	12		2.4	1.0	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.91	J	2.4	0.24	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: DUP-01-202210

Lab Sample ID: 320-93224-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	23		5.5	2.6	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	66		2.2	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	34		2.2	0.64	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	24		2.2	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	13		2.2	0.93	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.96	J	2.2	0.22	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: DUP-02-202210

Lab Sample ID: 320-93224-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	220		5.1	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	200		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	350		2.0	0.87	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	20		2.0	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.5	J	2.0	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.90	J	2.0	0.31	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

## Client Sample ID: DUP-02-202210 (Continued)

Lab Sample ID: 320-93224-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	5.3		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.4		2.0	0.55	ng/L	1		537 (modified)	Total/NA
4:2 FTS	70		2.0	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	360		2.0	0.47	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1100		100	25	ng/L	50		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	760		100	30	ng/L	50		537 (modified)	Total/NA
6:2 FTS - DL	4700		250	130	ng/L	50		537 (modified)	Total/NA

## Client Sample ID: DUP-03-202210

Lab Sample ID: 320-93224-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	55		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	330		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	180		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	73		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	65		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	6.0		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.59	J	2.0	0.31	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.26	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.67	J	2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.6	J	2.0	0.54	ng/L	1		537 (modified)	Total/NA
4:2 FTS	3.6		2.0	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	38		2.0	0.46	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	580		25	13	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: DUP-04-202210

Lab Sample ID: 320-93224-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	12		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	50		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	47		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	17		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	31		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.7	J	2.0	0.27	ng/L	1		537 (modified)	Total/NA
4:2 FTS	3.1		2.0	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	28		2.0	0.46	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	460		25	12	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MP-01-EB-202210

Lab Sample ID: 320-93224-37

No Detections.

## Client Sample ID: MP-02-EB-202210

Lab Sample ID: 320-93224-38

No Detections.

## Client Sample ID: MP-03-EB-202210

Lab Sample ID: 320-93224-39

No Detections.

## Client Sample ID: MP-04-EB-202210

Lab Sample ID: 320-93224-40

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

## Client Sample ID: MP-05-EB-202210

Lab Sample ID: 320-93224-41

No Detections.

## Client Sample ID: FB-01-202210

Lab Sample ID: 320-93224-42

No Detections.

## Client Sample ID: MW-01-202210

Lab Sample ID: 320-93224-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	320		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	140		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	14		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.74	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.97	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.7		1.9	0.51	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.40	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
8:2 FTS	29		1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1400		19	4.6	ng/L	10		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	780		19	5.4	ng/L	10		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	800		19	2.3	ng/L	10		537 (modified)	Total/NA
6:2 FTS - DL	840		47	23	ng/L	10		537 (modified)	Total/NA

## Client Sample ID: MW-02-202210

Lab Sample ID: 320-93224-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	300		4.5	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	270		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	190		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	24		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.7		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.71	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.5		1.8	0.48	ng/L	1		537 (modified)	Total/NA
4:2 FTS	3.2		1.8	0.21	ng/L	1		537 (modified)	Total/NA
8:2 FTS	99		1.8	0.41	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1400		18	4.4	ng/L	10		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	790		18	5.2	ng/L	10		537 (modified)	Total/NA
6:2 FTS - DL	1200		45	22	ng/L	10		537 (modified)	Total/NA

## Client Sample ID: MW-03-202210

Lab Sample ID: 320-93224-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.5		4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.2	J	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.82	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.84	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.82	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-04-202210

Lab Sample ID: 320-93224-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	85		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	33		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	2.3		1.9	1.0	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.85	J	1.9	0.52	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento



# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

## Client Sample ID: MW-04-202210 (Continued)

Lab Sample ID: 320-93224-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.93	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.62	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.2		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	28		1.9	0.51	ng/L	1		537 (modified)	Total/NA
4:2 FTS	63		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	520		230	110	ng/L	50		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	2100		94	23	ng/L	50		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1700		94	27	ng/L	50		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	1000		94	12	ng/L	50		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1500		94	40	ng/L	50		537 (modified)	Total/NA
6:2 FTS - DL	6200		230	120	ng/L	50		537 (modified)	Total/NA
8:2 FTS - DL	3100		94	22	ng/L	50		537 (modified)	Total/NA

## Client Sample ID: MW-05-202210

Lab Sample ID: 320-93224-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	44		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	210		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	140		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	96		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	64		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	7.2		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	4.3		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.63	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.8		1.9	0.51	ng/L	1		537 (modified)	Total/NA
6:2 FTS	140		4.7	2.4	ng/L	1		537 (modified)	Total/NA
8:2 FTS - DL	340		9.4	2.2	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MW-06-202210

Lab Sample ID: 320-93224-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.2		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.3	J	1.8	0.90	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-07-202210

Lab Sample ID: 320-93224-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	8.8		2.0	0.20	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: PZ-01-202210

Lab Sample ID: 320-93224-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonamide (FOSA)	1.1	J	1.8	0.89	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: EB-06-202210

Lab Sample ID: 320-93224-51

No Detections.

## Client Sample ID: DUP-05-202210

Lab Sample ID: 320-93224-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	89		2.0	0.27	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Detection Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: DUP-05-202210 (Continued)**

**Lab Sample ID: 320-93224-52**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	33		2.0	0.31	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	2.2		2.0	1.1	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.66	J	2.0	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.46	J	2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.9		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	29		2.0	0.54	ng/L	1		537 (modified)	Total/NA
4:2 FTS	67		2.0	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	510		250	120	ng/L	50		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	2500		99	24	ng/L	50		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1800		99	29	ng/L	50		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	920		99	12	ng/L	50		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1300		99	42	ng/L	50		537 (modified)	Total/NA
6:2 FTS - DL	6900		250	120	ng/L	50		537 (modified)	Total/NA
8:2 FTS - DL	3100		99	23	ng/L	50		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(277-293)-202210**

**Lab Sample ID: 320-93224-1**

Date Collected: 10/13/22 14:05

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.0	J	5.5	2.7	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluoropentanoic acid (PFPeA)	20		2.2	0.54	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorohexanoic acid (PFHxA)	16		2.2	0.64	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluoroheptanoic acid (PFHpA)	5.9		2.2	0.28	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorooctanoic acid (PFOA)	12		2.2	0.94	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorononanoic acid (PFNA)	0.77	J	2.2	0.30	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorodecanoic acid (PFDA)	<0.34		2.2	0.34	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.2	1.2	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorododecanoic acid (PFDoA)	<0.61		2.2	0.61	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.2	1.4	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorotetradecanoic acid (PFTeA)	<0.81		2.2	0.81	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.22		2.2	0.22	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluoropentanesulfonic acid (PFPeS)	<0.33		2.2	0.33	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.63		2.2	0.63	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.21		2.2	0.21	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.60		2.2	0.60	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorononanesulfonic acid (PFNS)	<0.41		2.2	0.41	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorodecanesulfonic acid (PFDS)	<0.35		2.2	0.35	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorododecanesulfonic acid (PFDoS)	<1.1		2.2	1.1	ng/L		10/17/22 19:26	10/22/22 20:57	1
Perfluorooctanesulfonamide (FOSA)	<1.1		2.2	1.1	ng/L		10/17/22 19:26	10/22/22 20:57	1
NEtFOSA	<0.96		2.2	0.96	ng/L		10/17/22 19:26	10/22/22 20:57	1
NMeFOSA	<0.47		2.2	0.47	ng/L		10/17/22 19:26	10/22/22 20:57	1
NMeFOSAA	<1.3		5.5	1.3	ng/L		10/17/22 19:26	10/22/22 20:57	1
NEtFOSAA	<1.4		5.5	1.4	ng/L		10/17/22 19:26	10/22/22 20:57	1
NMeFOSE	<1.5		4.4	1.5	ng/L		10/17/22 19:26	10/22/22 20:57	1
NEtFOSE	<0.94		2.2	0.94	ng/L		10/17/22 19:26	10/22/22 20:57	1
4:2 FTS	1.2	J	2.2	0.27	ng/L		10/17/22 19:26	10/22/22 20:57	1
6:2 FTS	200		5.5	2.8	ng/L		10/17/22 19:26	10/22/22 20:57	1
8:2 FTS	12		2.2	0.51	ng/L		10/17/22 19:26	10/22/22 20:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.44		2.2	0.44	ng/L		10/17/22 19:26	10/22/22 20:57	1
HFPO-DA (GenX)	<1.7		4.4	1.7	ng/L		10/17/22 19:26	10/22/22 20:57	1
9Cl-PF3ONS	<0.27		2.2	0.27	ng/L		10/17/22 19:26	10/22/22 20:57	1
11Cl-PF3OUdS	<0.35		2.2	0.35	ng/L		10/17/22 19:26	10/22/22 20:57	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	83		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C5 PFPeA	93		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C2 PFHxA	96		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C4 PFHpA	96		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C4 PFOA	99		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C5 PFNA	109		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C2 PFDA	98		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C2 PFUnA	94		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C2 PFDoA	95		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C2 PFTeDA	97		25 - 150				10/17/22 19:26	10/22/22 20:57	1
13C3 PFBS	90		25 - 150				10/17/22 19:26	10/22/22 20:57	1
18O2 PFHxS	98		25 - 150				10/17/22 19:26	10/22/22 20:57	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(277-293)-202210**

**Lab Sample ID: 320-93224-1**

Date Collected: 10/13/22 14:05

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	99		25 - 150	10/17/22 19:26	10/22/22 20:57	1
13C8 FOSA	101		10 - 150	10/17/22 19:26	10/22/22 20:57	1
d3-NMeFOSAA	100		25 - 150	10/17/22 19:26	10/22/22 20:57	1
d5-NEtFOSAA	106		25 - 150	10/17/22 19:26	10/22/22 20:57	1
d-N-MeFOSA-M	90		10 - 150	10/17/22 19:26	10/22/22 20:57	1
d-N-EtFOSA-M	89		10 - 150	10/17/22 19:26	10/22/22 20:57	1
d7-N-MeFOSE-M	82		10 - 150	10/17/22 19:26	10/22/22 20:57	1
d9-N-EtFOSE-M	80		10 - 150	10/17/22 19:26	10/22/22 20:57	1
M2-4:2 FTS	100		25 - 150	10/17/22 19:26	10/22/22 20:57	1
M2-6:2 FTS	101		25 - 150	10/17/22 19:26	10/22/22 20:57	1
M2-8:2 FTS	149		25 - 150	10/17/22 19:26	10/22/22 20:57	1
13C3 HFPO-DA	99		25 - 150	10/17/22 19:26	10/22/22 20:57	1

**Client Sample ID: MP-01-(253-274)-202210**

**Lab Sample ID: 320-93224-2**

Date Collected: 10/13/22 14:20

Matrix: Water

Date Received: 10/14/22 14:20

**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		10/17/22 19:26	10/25/22 06:23	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>0.62</b>	<b>J</b>	2.1	0.52	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorohexanoic acid (PFHxA)	<0.61		2.1	0.61	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.1	0.26	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorooctanoic acid (PFOA)	<0.90		2.1	0.90	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorononanoic acid (PFNA)	<0.29		2.1	0.29	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorodecanoic acid (PFDA)	<0.33		2.1	0.33	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorododecanoic acid (PFDoA)	<0.58		2.1	0.58	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.1	1.4	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.77		2.1	0.77	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.32		2.1	0.32	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorohexanesulfonic acid (PFHxS)	<0.60		2.1	0.60	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorooctanesulfonic acid (PFOS)	<0.57		2.1	0.57	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/17/22 19:26	10/25/22 06:23	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/17/22 19:26	10/25/22 06:23	1
NEtFOSA	<0.92		2.1	0.92	ng/L		10/17/22 19:26	10/25/22 06:23	1
NMeFOSA	<0.46		2.1	0.46	ng/L		10/17/22 19:26	10/25/22 06:23	1
NMeFOSAA	<1.3		5.3	1.3	ng/L		10/17/22 19:26	10/25/22 06:23	1
NEtFOSAA	<1.4		5.3	1.4	ng/L		10/17/22 19:26	10/25/22 06:23	1
NMeFOSE	<1.5		4.2	1.5	ng/L		10/17/22 19:26	10/25/22 06:23	1
NEtFOSE	<0.90		2.1	0.90	ng/L		10/17/22 19:26	10/25/22 06:23	1
4:2 FTS	<0.25		2.1	0.25	ng/L		10/17/22 19:26	10/25/22 06:23	1
<b>6:2 FTS</b>	<b>4.5</b>	<b>J</b>	5.3	2.6	ng/L		10/17/22 19:26	10/25/22 06:23	1
8:2 FTS	<0.49		2.1	0.49	ng/L		10/17/22 19:26	10/25/22 06:23	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(253-274)-202210**

**Lab Sample ID: 320-93224-2**

Date Collected: 10/13/22 14:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.42		2.1	0.42	ng/L		10/17/22 19:26	10/25/22 06:23	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		10/17/22 19:26	10/25/22 06:23	1
9CI-PF3ONS	<0.25		2.1	0.25	ng/L		10/17/22 19:26	10/25/22 06:23	1
11CI-PF3OUdS	<0.34		2.1	0.34	ng/L		10/17/22 19:26	10/25/22 06:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C5 PFPeA	88		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C2 PFHxA	94		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C4 PFHpA	98		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C4 PFOA	98		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C5 PFNA	106		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C2 PFDA	99		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C2 PFUnA	106		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C2 PFDoA	113		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C2 PFTeDA	109		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C3 PFBS	93		25 - 150				10/17/22 19:26	10/25/22 06:23	1
18O2 PFHxS	98		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C4 PFOS	96		25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C8 FOSA	104		10 - 150				10/17/22 19:26	10/25/22 06:23	1
d3-NMeFOSAA	107		25 - 150				10/17/22 19:26	10/25/22 06:23	1
d5-NEtFOSAA	114		25 - 150				10/17/22 19:26	10/25/22 06:23	1
d-N-MeFOSA-M	73		10 - 150				10/17/22 19:26	10/25/22 06:23	1
d-N-EtFOSA-M	92		10 - 150				10/17/22 19:26	10/25/22 06:23	1
d7-N-MeFOSE-M	86		10 - 150				10/17/22 19:26	10/25/22 06:23	1
d9-N-EtFOSE-M	94		10 - 150				10/17/22 19:26	10/25/22 06:23	1
M2-4:2 FTS	96		25 - 150				10/17/22 19:26	10/25/22 06:23	1
M2-6:2 FTS	96		25 - 150				10/17/22 19:26	10/25/22 06:23	1
M2-8:2 FTS	214	*5+	25 - 150				10/17/22 19:26	10/25/22 06:23	1
13C3 HFPO-DA	99		25 - 150				10/17/22 19:26	10/25/22 06:23	1

**Client Sample ID: MP-01-(223-250)-202210**

**Lab Sample ID: 320-93224-3**

Date Collected: 10/13/22 14:45

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.0	1.3	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/17/22 19:26	10/25/22 06:33	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(223-250)-202210**

**Lab Sample ID: 320-93224-3**

Date Collected: 10/13/22 14:45

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/17/22 19:26	10/25/22 06:33	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/17/22 19:26	10/25/22 06:33	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/17/22 19:26	10/25/22 06:33	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/17/22 19:26	10/25/22 06:33	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/17/22 19:26	10/25/22 06:33	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/17/22 19:26	10/25/22 06:33	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/17/22 19:26	10/25/22 06:33	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/17/22 19:26	10/25/22 06:33	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/17/22 19:26	10/25/22 06:33	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/17/22 19:26	10/25/22 06:33	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/17/22 19:26	10/25/22 06:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/17/22 19:26	10/25/22 06:33	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/17/22 19:26	10/25/22 06:33	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/17/22 19:26	10/25/22 06:33	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/17/22 19:26	10/25/22 06:33	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C5 PFPeA	90		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C2 PFHxA	95		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C4 PFHpA	99		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C4 PFOA	98		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C5 PFNA	103		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C2 PFDA	103		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C2 PFUnA	100		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C2 PFDoA	108		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C2 PFTeDA	109		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C3 PFBS	90		25 - 150				10/17/22 19:26	10/25/22 06:33	1
18O2 PFHxS	95		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C4 PFOS	99		25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C8 FOSA	99		10 - 150				10/17/22 19:26	10/25/22 06:33	1
d3-NMeFOSAA	100		25 - 150				10/17/22 19:26	10/25/22 06:33	1
d5-NEtFOSAA	103		25 - 150				10/17/22 19:26	10/25/22 06:33	1
d-N-MeFOSA-M	88		10 - 150				10/17/22 19:26	10/25/22 06:33	1
d-N-EtFOSA-M	95		10 - 150				10/17/22 19:26	10/25/22 06:33	1
d7-N-MeFOSE-M	86		10 - 150				10/17/22 19:26	10/25/22 06:33	1
d9-N-EtFOSE-M	89		10 - 150				10/17/22 19:26	10/25/22 06:33	1
M2-4:2 FTS	94		25 - 150				10/17/22 19:26	10/25/22 06:33	1
M2-6:2 FTS	108		25 - 150				10/17/22 19:26	10/25/22 06:33	1
M2-8:2 FTS	176	*5+	25 - 150				10/17/22 19:26	10/25/22 06:33	1
13C3 HFPO-DA	104		25 - 150				10/17/22 19:26	10/25/22 06:33	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(198-220)-202210**

**Lab Sample ID: 320-93224-4**

Date Collected: 10/13/22 15:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		5.0	2.4	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluoropentanoic acid (PFPeA)	52		2.0	0.49	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorohexanoic acid (PFHxA)	42		2.0	0.58	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluoroheptanoic acid (PFHpA)	15		2.0	0.25	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorooctanoic acid (PFOA)	32		2.0	0.85	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorononanoic acid (PFNA)	1.5	J	2.0	0.27	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorooctanesulfonic acid (PFOS)	0.57	J	2.0	0.54	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/17/22 19:26	10/25/22 08:34	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/17/22 19:26	10/25/22 08:34	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/17/22 19:26	10/25/22 08:34	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/17/22 19:26	10/25/22 08:34	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/17/22 19:26	10/25/22 08:34	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/17/22 19:26	10/25/22 08:34	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/17/22 19:26	10/25/22 08:34	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/17/22 19:26	10/25/22 08:34	1
4:2 FTS	3.2		2.0	0.24	ng/L		10/17/22 19:26	10/25/22 08:34	1
8:2 FTS	27		2.0	0.46	ng/L		10/17/22 19:26	10/25/22 08:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/17/22 19:26	10/25/22 08:34	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/17/22 19:26	10/25/22 08:34	1
9CI-PF3ONS	<0.24		2.0	0.24	ng/L		10/17/22 19:26	10/25/22 08:34	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		10/17/22 19:26	10/25/22 08:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C5 PFPeA	94		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C2 PFHxA	89		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C4 PFHpA	91		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C4 PFOA	91		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C5 PFNA	98		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C2 PFDA	100		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C2 PFUnA	98		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C2 PFDoA	105		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C2 PFTeDA	109		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C3 PFBS	87		25 - 150	10/17/22 19:26	10/25/22 08:34	1
18O2 PFHxS	93		25 - 150	10/17/22 19:26	10/25/22 08:34	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(198-220)-202210**

**Lab Sample ID: 320-93224-4**

Date Collected: 10/13/22 15:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	96		25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C8 FOSA	95		10 - 150	10/17/22 19:26	10/25/22 08:34	1
d3-NMeFOSAA	98		25 - 150	10/17/22 19:26	10/25/22 08:34	1
d5-NEtFOSAA	114		25 - 150	10/17/22 19:26	10/25/22 08:34	1
d-N-MeFOSA-M	91		10 - 150	10/17/22 19:26	10/25/22 08:34	1
d-N-EtFOSA-M	90		10 - 150	10/17/22 19:26	10/25/22 08:34	1
d7-N-MeFOSE-M	88		10 - 150	10/17/22 19:26	10/25/22 08:34	1
d9-N-EtFOSE-M	85		10 - 150	10/17/22 19:26	10/25/22 08:34	1
M2-4:2 FTS	93		25 - 150	10/17/22 19:26	10/25/22 08:34	1
M2-8:2 FTS	161	*5+	25 - 150	10/17/22 19:26	10/25/22 08:34	1
13C3 HFPO-DA	98		25 - 150	10/17/22 19:26	10/25/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	530		25	12	ng/L		10/17/22 19:26	10/25/22 07:03	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
M2-6:2 FTS	93		25 - 150	10/17/22 19:26	10/25/22 07:03	5			

**Client Sample ID: MP-01-(155-195)-202210**

**Lab Sample ID: 320-93224-5**

Date Collected: 10/13/22 15:15

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	330		5.0	2.4	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorononanoic acid (PFNA)	65		2.0	0.27	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorodecanoic acid (PFDA)	5.6		2.0	0.31	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.74		2.0	0.74	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorobutanesulfonic acid (PFBS)	1.0	J	2.0	0.20	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluoropentanesulfonic acid (PFPeS)	0.81	J	2.0	0.30	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorohexanesulfonic acid (PFHxS)	6.1		2.0	0.57	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluoroheptanesulfonic acid (PFHpS)	1.2	J I	2.0	0.19	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorooctanesulfonic acid (PFOS)	16		2.0	0.54	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.98		2.0	0.98	ng/L		10/17/22 19:26	10/25/22 08:44	1
Perfluorooctanesulfonamide (FOSA)	<0.99		2.0	0.99	ng/L		10/17/22 19:26	10/25/22 08:44	1
NEtFOSA	<0.88		2.0	0.88	ng/L		10/17/22 19:26	10/25/22 08:44	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/17/22 19:26	10/25/22 08:44	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/17/22 19:26	10/25/22 08:44	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/17/22 19:26	10/25/22 08:44	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/17/22 19:26	10/25/22 08:44	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(155-195)-202210**

**Lab Sample ID: 320-93224-5**

Date Collected: 10/13/22 15:15

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.86		2.0	0.86	ng/L		10/17/22 19:26	10/25/22 08:44	1
<b>4:2 FTS</b>	<b>88</b>		2.0	0.24	ng/L		10/17/22 19:26	10/25/22 08:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/17/22 19:26	10/25/22 08:44	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/17/22 19:26	10/25/22 08:44	1
9CI-PF3ONS	<0.24		2.0	0.24	ng/L		10/17/22 19:26	10/25/22 08:44	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		10/17/22 19:26	10/25/22 08:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	131		25 - 150				10/17/22 19:26	10/25/22 08:44	1
13C5 PFNA	159	*5+	25 - 150				10/17/22 19:26	10/25/22 08:44	1
13C2 PFDA	152	*5+	25 - 150				10/17/22 19:26	10/25/22 08:44	1
13C2 PFUnA	160	*5+	25 - 150				10/17/22 19:26	10/25/22 08:44	1
13C2 PFDoA	149		25 - 150				10/17/22 19:26	10/25/22 08:44	1
13C2 PFTeDA	154	*5+	25 - 150				10/17/22 19:26	10/25/22 08:44	1
13C3 PFBS	128		25 - 150				10/17/22 19:26	10/25/22 08:44	1
18O2 PFHxS	135		25 - 150				10/17/22 19:26	10/25/22 08:44	1
13C4 PFOS	146		25 - 150				10/17/22 19:26	10/25/22 08:44	1
13C8 FOSA	143		10 - 150				10/17/22 19:26	10/25/22 08:44	1
d3-NMeFOSAA	137		25 - 150				10/17/22 19:26	10/25/22 08:44	1
d5-NEtFOSAA	182	*5+	25 - 150				10/17/22 19:26	10/25/22 08:44	1
d-N-MeFOSA-M	79		10 - 150				10/17/22 19:26	10/25/22 08:44	1
d-N-EtFOSA-M	114		10 - 150				10/17/22 19:26	10/25/22 08:44	1
d7-N-MeFOSE-M	87		10 - 150				10/17/22 19:26	10/25/22 08:44	1
d9-N-EtFOSE-M	131		10 - 150				10/17/22 19:26	10/25/22 08:44	1
M2-4:2 FTS	128		25 - 150				10/17/22 19:26	10/25/22 08:44	1
13C3 HFPO-DA	143		25 - 150				10/17/22 19:26	10/25/22 08:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1800		40	9.9	ng/L		10/17/22 19:26	10/25/22 07:34	20
Perfluorohexanoic acid (PFHxA)	1300		40	12	ng/L		10/17/22 19:26	10/25/22 07:34	20
Perfluoroheptanoic acid (PFHpA)	490		40	5.0	ng/L		10/17/22 19:26	10/25/22 07:34	20
Perfluorooctanoic acid (PFOA)	1200		40	17	ng/L		10/17/22 19:26	10/25/22 07:34	20
<b>6:2 FTS</b>	<b>6800</b>		100	50	ng/L		10/17/22 19:26	10/25/22 07:34	20
<b>8:2 FTS</b>	<b>670</b>		40	9.3	ng/L		10/17/22 19:26	10/25/22 07:34	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	89		25 - 150				10/17/22 19:26	10/25/22 07:34	20
13C2 PFHxA	92		25 - 150				10/17/22 19:26	10/25/22 07:34	20
13C4 PFHpA	103		25 - 150				10/17/22 19:26	10/25/22 07:34	20
13C4 PFOA	85		25 - 150				10/17/22 19:26	10/25/22 07:34	20
M2-6:2 FTS	208	*5+	25 - 150				10/17/22 19:26	10/25/22 07:34	20
M2-8:2 FTS	134		25 - 150				10/17/22 19:26	10/25/22 07:34	20

**Client Sample ID: MP-01-(121-152)-202210**

**Lab Sample ID: 320-93224-6**

Date Collected: 10/13/22 15:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	360		5.2	2.5	ng/L		10/17/22 19:26	10/25/22 08:54	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(121-152)-202210**

**Lab Sample ID: 320-93224-6**

Date Collected: 10/13/22 15:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	72		2.1	0.28	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorodecanoic acid (PFDA)	5.2		2.1	0.32	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.1	1.1	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorododecanoic acid (PFDoA)	<0.57		2.1	0.57	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.1	1.3	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorotetradecanoic acid (PFTeA)	<0.76		2.1	0.76	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorobutanesulfonic acid (PFBS)	1.0	J	2.1	0.21	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluoropentanesulfonic acid (PFPeS)	0.89	J	2.1	0.31	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorohexanesulfonic acid (PFHxS)	6.7		2.1	0.59	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluoroheptanesulfonic acid (PFHpS)	1.0	J I	2.1	0.20	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorooctanesulfonic acid (PFOS)	20		2.1	0.56	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluoronananesulfonic acid (PFNS)	<0.38		2.1	0.38	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.1	0.33	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/17/22 19:26	10/25/22 08:54	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/17/22 19:26	10/25/22 08:54	1
NEtFOSA	<0.90		2.1	0.90	ng/L		10/17/22 19:26	10/25/22 08:54	1
NMeFOSA	<0.45		2.1	0.45	ng/L		10/17/22 19:26	10/25/22 08:54	1
NMeFOSAA	<1.2		5.2	1.2	ng/L		10/17/22 19:26	10/25/22 08:54	1
NEtFOSAA	<1.3		5.2	1.3	ng/L		10/17/22 19:26	10/25/22 08:54	1
NMeFOSE	<1.5		4.1	1.5	ng/L		10/17/22 19:26	10/25/22 08:54	1
NEtFOSE	<0.88		2.1	0.88	ng/L		10/17/22 19:26	10/25/22 08:54	1
4:2 FTS	88		2.1	0.25	ng/L		10/17/22 19:26	10/25/22 08:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.41		2.1	0.41	ng/L		10/17/22 19:26	10/25/22 08:54	1
HFPO-DA (GenX)	<1.6		4.1	1.6	ng/L		10/17/22 19:26	10/25/22 08:54	1
9CI-PF3ONS	<0.25		2.1	0.25	ng/L		10/17/22 19:26	10/25/22 08:54	1
11CI-PF3OUdS	<0.33		2.1	0.33	ng/L		10/17/22 19:26	10/25/22 08:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	147		25 - 150				10/17/22 19:26	10/25/22 08:54	1
13C5 PFNA	176	*5+	25 - 150				10/17/22 19:26	10/25/22 08:54	1
13C2 PFDA	184	*5+	25 - 150				10/17/22 19:26	10/25/22 08:54	1
13C2 PFUnA	185	*5+	25 - 150				10/17/22 19:26	10/25/22 08:54	1
13C2 PFDoA	166	*5+	25 - 150				10/17/22 19:26	10/25/22 08:54	1
13C2 PFTeDA	173	*5+	25 - 150				10/17/22 19:26	10/25/22 08:54	1
13C3 PFBS	140		25 - 150				10/17/22 19:26	10/25/22 08:54	1
18O2 PFHxS	156	*5+	25 - 150				10/17/22 19:26	10/25/22 08:54	1
13C4 PFOS	162	*5+	25 - 150				10/17/22 19:26	10/25/22 08:54	1
13C8 FOSA	166	*5+	10 - 150				10/17/22 19:26	10/25/22 08:54	1
d3-NMeFOSAA	144		25 - 150				10/17/22 19:26	10/25/22 08:54	1
d5-NEtFOSAA	210	*5+	25 - 150				10/17/22 19:26	10/25/22 08:54	1
d-N-MeFOSA-M	85		10 - 150				10/17/22 19:26	10/25/22 08:54	1
d-N-EtFOSA-M	130		10 - 150				10/17/22 19:26	10/25/22 08:54	1
d7-N-MeFOSE-M	93		10 - 150				10/17/22 19:26	10/25/22 08:54	1
d9-N-EtFOSE-M	150		10 - 150				10/17/22 19:26	10/25/22 08:54	1
M2-4:2 FTS	155	*5+	25 - 150				10/17/22 19:26	10/25/22 08:54	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(121-152)-202210**

**Lab Sample ID: 320-93224-6**

Date Collected: 10/13/22 15:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	162	*5+	25 - 150	10/17/22 19:26	10/25/22 08:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1800		41	10	ng/L		10/17/22 19:26	10/25/22 07:44	20
Perfluorohexanoic acid (PFHxA)	1500		41	12	ng/L		10/17/22 19:26	10/25/22 07:44	20
Perfluoroheptanoic acid (PFHpA)	590		41	5.2	ng/L		10/17/22 19:26	10/25/22 07:44	20
Perfluorooctanoic acid (PFOA)	1300		41	18	ng/L		10/17/22 19:26	10/25/22 07:44	20
6:2 FTS	7300		100	52	ng/L		10/17/22 19:26	10/25/22 07:44	20
8:2 FTS	710		41	9.5	ng/L		10/17/22 19:26	10/25/22 07:44	20

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	104		25 - 150	10/17/22 19:26	10/25/22 07:44	20
13C2 PFHxA	96		25 - 150	10/17/22 19:26	10/25/22 07:44	20
13C4 PFHpA	101		25 - 150	10/17/22 19:26	10/25/22 07:44	20
13C4 PFOA	99		25 - 150	10/17/22 19:26	10/25/22 07:44	20
M2-6:2 FTS	251	*5+	25 - 150	10/17/22 19:26	10/25/22 07:44	20
M2-8:2 FTS	160	*5+	25 - 150	10/17/22 19:26	10/25/22 07:44	20

**Client Sample ID: MP-01-(091-118)-202210**

**Lab Sample ID: 320-93224-7**

Date Collected: 10/13/22 15:45

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	150		5.4	2.6	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluoroheptanoic acid (PFHpA)	220		2.1	0.27	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorooctanoic acid (PFOA)	390		2.1	0.91	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorononanoic acid (PFNA)	26		2.1	0.29	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorodecanoic acid (PFDA)	3.4		2.1	0.33	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorododecanoic acid (PFDoA)	<0.59		2.1	0.59	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.1	1.4	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorotetradecanoic acid (PFTeA)	<0.78		2.1	0.78	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorobutanesulfonic acid (PFBS)	0.48	J	2.1	0.21	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluoropentanesulfonic acid (PFPeS)	<0.32		2.1	0.32	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorohexanesulfonic acid (PFHxS)	2.1		2.1	0.61	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorooctanesulfonic acid (PFOS)	7.7		2.1	0.58	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorononanesulfonic acid (PFNS)	<0.40		2.1	0.40	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/17/22 19:26	10/22/22 21:57	1
Perfluorooctanesulfonamide (FOSA)	<1.1		2.1	1.1	ng/L		10/17/22 19:26	10/22/22 21:57	1
NEtFOSA	<0.93		2.1	0.93	ng/L		10/17/22 19:26	10/22/22 21:57	1
NMeFOSA	<0.46		2.1	0.46	ng/L		10/17/22 19:26	10/22/22 21:57	1
NMeFOSAA	<1.3		5.4	1.3	ng/L		10/17/22 19:26	10/22/22 21:57	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(091-118)-202210**

**Lab Sample ID: 320-93224-7**

Date Collected: 10/13/22 15:45

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<1.4		5.4	1.4	ng/L		10/17/22 19:26	10/22/22 21:57	1
NMeFOSE	<1.5		4.3	1.5	ng/L		10/17/22 19:26	10/22/22 21:57	1
NEFOSE	<0.91		2.1	0.91	ng/L		10/17/22 19:26	10/22/22 21:57	1
<b>4:2 FTS</b>	<b>33</b>		2.1	0.26	ng/L		10/17/22 19:26	10/22/22 21:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.43		2.1	0.43	ng/L		10/17/22 19:26	10/22/22 21:57	1
HFPO-DA (GenX)	<1.6		4.3	1.6	ng/L		10/17/22 19:26	10/22/22 21:57	1
9CI-PF3ONS	<0.26		2.1	0.26	ng/L		10/17/22 19:26	10/22/22 21:57	1
11CI-PF3OUdS	<0.34		2.1	0.34	ng/L		10/17/22 19:26	10/22/22 21:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C4 PFHpA	105		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C4 PFOA	94		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C5 PFNA	110		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C2 PFDA	106		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C2 PFUnA	108		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C2 PFDoA	109		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C2 PFTeDA	102		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C3 PFBS	99		25 - 150	10/17/22 19:26	10/22/22 21:57	1
18O2 PFHxS	105		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C4 PFOS	101		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C8 FOSA	113		10 - 150	10/17/22 19:26	10/22/22 21:57	1
d3-NMeFOSAA	113		25 - 150	10/17/22 19:26	10/22/22 21:57	1
d5-NEtFOSAA	116		25 - 150	10/17/22 19:26	10/22/22 21:57	1
d-N-MeFOSA-M	109		10 - 150	10/17/22 19:26	10/22/22 21:57	1
d-N-EtFOSA-M	105		10 - 150	10/17/22 19:26	10/22/22 21:57	1
d7-N-MeFOSE-M	87		10 - 150	10/17/22 19:26	10/22/22 21:57	1
d9-N-EtFOSE-M	87		10 - 150	10/17/22 19:26	10/22/22 21:57	1
M2-4:2 FTS	105		25 - 150	10/17/22 19:26	10/22/22 21:57	1
13C3 HFPO-DA	108		25 - 150	10/17/22 19:26	10/22/22 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	660		43	11	ng/L		10/17/22 19:26	10/25/22 07:54	20
Perfluorohexanoic acid (PFHxA)	570		43	12	ng/L		10/17/22 19:26	10/25/22 07:54	20
<b>6:2 FTS</b>	<b>4400</b>		110	54	ng/L		10/17/22 19:26	10/25/22 07:54	20
<b>8:2 FTS</b>	<b>390</b>		43	9.9	ng/L		10/17/22 19:26	10/25/22 07:54	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	98		25 - 150	10/17/22 19:26	10/25/22 07:54	20
13C2 PFHxA	94		25 - 150	10/17/22 19:26	10/25/22 07:54	20
M2-6:2 FTS	140		25 - 150	10/17/22 19:26	10/25/22 07:54	20
M2-8:2 FTS	131		25 - 150	10/17/22 19:26	10/25/22 07:54	20

**Client Sample ID: MP-01-(051-088)-202210**

**Lab Sample ID: 320-93224-8**

Date Collected: 10/13/22 16:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	89		2.5	0.34	ng/L		10/17/22 19:26	10/22/22 22:38	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(051-088)-202210**

**Lab Sample ID: 320-93224-8**

Date Collected: 10/13/22 16:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorodecanoic acid (PFDA)</b>	<b>33</b>		2.5	0.39	ng/L		10/17/22 19:26	10/22/22 22:38	1
Perfluoroundecanoic acid (PFUnA)	<1.4		2.5	1.4	ng/L		10/17/22 19:26	10/22/22 22:38	1
Perfluorododecanoic acid (PFDoA)	<0.68		2.5	0.68	ng/L		10/17/22 19:26	10/22/22 22:38	1
Perfluorotridecanoic acid (PFTrDA)	<1.6		2.5	1.6	ng/L		10/17/22 19:26	10/22/22 22:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.91		2.5	0.91	ng/L		10/17/22 19:26	10/22/22 22:38	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>1.0</b>	<b>J</b>	2.5	0.25	ng/L		10/17/22 19:26	10/22/22 22:38	1
<b>Perfluoropentanesulfonic acid (PFPeS)</b>	<b>0.86</b>	<b>J</b>	2.5	0.37	ng/L		10/17/22 19:26	10/22/22 22:38	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>4.9</b>		2.5	0.71	ng/L		10/17/22 19:26	10/22/22 22:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.24		2.5	0.24	ng/L		10/17/22 19:26	10/22/22 22:38	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>21</b>		2.5	0.67	ng/L		10/17/22 19:26	10/22/22 22:38	1
Perfluorononanesulfonic acid (PFNS)	<0.46		2.5	0.46	ng/L		10/17/22 19:26	10/22/22 22:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.40		2.5	0.40	ng/L		10/17/22 19:26	10/22/22 22:38	1
Perfluorododecanesulfonic acid (PFDoS)	<1.2		2.5	1.2	ng/L		10/17/22 19:26	10/22/22 22:38	1
Perfluorooctanesulfonamide (FOSA)	<1.2		2.5	1.2	ng/L		10/17/22 19:26	10/22/22 22:38	1
NEtFOSA	<1.1		2.5	1.1	ng/L		10/17/22 19:26	10/22/22 22:38	1
NMeFOSA	<0.53		2.5	0.53	ng/L		10/17/22 19:26	10/22/22 22:38	1
NMeFOSAA	<1.5		6.2	1.5	ng/L		10/17/22 19:26	10/22/22 22:38	1
NEtFOSAA	<1.6		6.2	1.6	ng/L		10/17/22 19:26	10/22/22 22:38	1
NMeFOSE	<1.7		5.0	1.7	ng/L		10/17/22 19:26	10/22/22 22:38	1
NEtFOSE	<1.1		2.5	1.1	ng/L		10/17/22 19:26	10/22/22 22:38	1
<b>4:2 FTS</b>	<b>99</b>		2.5	0.30	ng/L		10/17/22 19:26	10/22/22 22:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.50		2.5	0.50	ng/L		10/17/22 19:26	10/22/22 22:38	1
HFPO-DA (GenX)	<1.9		5.0	1.9	ng/L		10/17/22 19:26	10/22/22 22:38	1
9CI-PF3ONS	<0.30		2.5	0.30	ng/L		10/17/22 19:26	10/22/22 22:38	1
11CI-PF3OUdS	<0.40		2.5	0.40	ng/L		10/17/22 19:26	10/22/22 22:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	112		25 - 150	10/17/22 19:26	10/22/22 22:38	1
13C2 PFDA	110		25 - 150	10/17/22 19:26	10/22/22 22:38	1
13C2 PFUnA	110		25 - 150	10/17/22 19:26	10/22/22 22:38	1
13C2 PFDoA	120		25 - 150	10/17/22 19:26	10/22/22 22:38	1
13C2 PFTeDA	133		25 - 150	10/17/22 19:26	10/22/22 22:38	1
13C3 PFBS	99		25 - 150	10/17/22 19:26	10/22/22 22:38	1
18O2 PFHxS	106		25 - 150	10/17/22 19:26	10/22/22 22:38	1
13C4 PFOS	107		25 - 150	10/17/22 19:26	10/22/22 22:38	1
13C8 FOSA	110		10 - 150	10/17/22 19:26	10/22/22 22:38	1
d3-NMeFOSAA	124		25 - 150	10/17/22 19:26	10/22/22 22:38	1
d5-NEtFOSAA	125		25 - 150	10/17/22 19:26	10/22/22 22:38	1
d-N-MeFOSA-M	107		10 - 150	10/17/22 19:26	10/22/22 22:38	1
d-N-EtFOSA-M	110		10 - 150	10/17/22 19:26	10/22/22 22:38	1
d7-N-MeFOSE-M	105		10 - 150	10/17/22 19:26	10/22/22 22:38	1
d9-N-EtFOSE-M	106		10 - 150	10/17/22 19:26	10/22/22 22:38	1
M2-4:2 FTS	99		25 - 150	10/17/22 19:26	10/22/22 22:38	1
13C3 HFPO-DA	117		25 - 150	10/17/22 19:26	10/22/22 22:38	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(051-088)-202210**

**Lab Sample ID: 320-93224-8**

Date Collected: 10/13/22 16:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	580		120	60	ng/L		10/17/22 19:26	10/25/22 08:24	20
Perfluoropentanoic acid (PFPeA)	2800		50	12	ng/L		10/17/22 19:26	10/25/22 08:24	20
Perfluorohexanoic acid (PFHxA)	2100		50	14	ng/L		10/17/22 19:26	10/25/22 08:24	20
Perfluoroheptanoic acid (PFHpA)	1000		50	6.2	ng/L		10/17/22 19:26	10/25/22 08:24	20
Perfluorooctanoic acid (PFOA)	1700		50	21	ng/L		10/17/22 19:26	10/25/22 08:24	20
6:2 FTS	8000		120	62	ng/L		10/17/22 19:26	10/25/22 08:24	20
8:2 FTS	2800		50	11	ng/L		10/17/22 19:26	10/25/22 08:24	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150				10/17/22 19:26	10/25/22 08:24	20
13C5 PFPeA	89		25 - 150				10/17/22 19:26	10/25/22 08:24	20
13C2 PFHxA	87		25 - 150				10/17/22 19:26	10/25/22 08:24	20
13C4 PFHpA	93		25 - 150				10/17/22 19:26	10/25/22 08:24	20
13C4 PFOA	91		25 - 150				10/17/22 19:26	10/25/22 08:24	20
M2-6:2 FTS	163	*5+	25 - 150				10/17/22 19:26	10/25/22 08:24	20
M2-8:2 FTS	146		25 - 150				10/17/22 19:26	10/25/22 08:24	20

**Client Sample ID: MP-02-(279-300)-202210**

**Lab Sample ID: 320-93224-9**

Date Collected: 10/12/22 08:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluoropentanoic acid (PFPeA)	0.63	J	1.9	0.47	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorooctanoic acid (PFOA)	<0.82		1.9	0.82	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		1.9	1.3	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorotetradecanoic acid (PFTTeA)	<0.71		1.9	0.71	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		10/17/22 19:26	10/25/22 06:43	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		10/17/22 19:26	10/25/22 06:43	1
NEtFOSA	<0.84		1.9	0.84	ng/L		10/17/22 19:26	10/25/22 06:43	1
NMeFOSA	<0.42		1.9	0.42	ng/L		10/17/22 19:26	10/25/22 06:43	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		10/17/22 19:26	10/25/22 06:43	1
NEtFOSAA	<1.3		4.8	1.3	ng/L		10/17/22 19:26	10/25/22 06:43	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/17/22 19:26	10/25/22 06:43	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(279-300)-202210**

**Lab Sample ID: 320-93224-9**

Date Collected: 10/12/22 08:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.82		1.9	0.82	ng/L		10/17/22 19:26	10/25/22 06:43	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/17/22 19:26	10/25/22 06:43	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/17/22 19:26	10/25/22 06:43	1
8:2 FTS	<0.45		1.9	0.45	ng/L		10/17/22 19:26	10/25/22 06:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		1.9	0.39	ng/L		10/17/22 19:26	10/25/22 06:43	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/17/22 19:26	10/25/22 06:43	1
9CI-PF3ONS	<0.23		1.9	0.23	ng/L		10/17/22 19:26	10/25/22 06:43	1
11CI-PF3OUdS	<0.31		1.9	0.31	ng/L		10/17/22 19:26	10/25/22 06:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C5 PFPeA	93		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C2 PFHxA	94		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C4 PFHpA	99		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C4 PFOA	99		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C5 PFNA	113		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C2 PFDA	105		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C2 PFUnA	104		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C2 PFDoA	110		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C2 PFTeDA	110		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C3 PFBS	91		25 - 150				10/17/22 19:26	10/25/22 06:43	1
18O2 PFHxS	98		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C4 PFOS	102		25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C8 FOSA	101		10 - 150				10/17/22 19:26	10/25/22 06:43	1
d3-NMeFOSAA	106		25 - 150				10/17/22 19:26	10/25/22 06:43	1
d5-NEtFOSAA	114		25 - 150				10/17/22 19:26	10/25/22 06:43	1
d-N-MeFOSA-M	93		10 - 150				10/17/22 19:26	10/25/22 06:43	1
d-N-EtFOSA-M	97		10 - 150				10/17/22 19:26	10/25/22 06:43	1
d7-N-MeFOSE-M	89		10 - 150				10/17/22 19:26	10/25/22 06:43	1
d9-N-EtFOSE-M	94		10 - 150				10/17/22 19:26	10/25/22 06:43	1
M2-4:2 FTS	95		25 - 150				10/17/22 19:26	10/25/22 06:43	1
M2-6:2 FTS	102		25 - 150				10/17/22 19:26	10/25/22 06:43	1
M2-8:2 FTS	187	*5+	25 - 150				10/17/22 19:26	10/25/22 06:43	1
13C3 HFPO-DA	105		25 - 150				10/17/22 19:26	10/25/22 06:43	1

**Client Sample ID: MP-02-(253-276)-202210**

**Lab Sample ID: 320-93224-10**

Date Collected: 10/12/22 08:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.5		5.2	2.5	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluoropentanoic acid (PFPeA)	2.0	J	2.1	0.51	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorohexanoic acid (PFHxA)	0.98	J I	2.1	0.60	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.1	0.26	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorooctanoic acid (PFOA)	1.1	J	2.1	0.89	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorononanoic acid (PFNA)	<0.28		2.1	0.28	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorodecanoic acid (PFDA)	<0.32		2.1	0.32	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.1	1.1	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorododecanoic acid (PFDoA)	<0.57		2.1	0.57	ng/L		10/17/22 19:26	10/25/22 06:53	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(253-276)-202210**

**Lab Sample ID: 320-93224-10**

**Date Collected: 10/12/22 08:20**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.1	1.4	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorotetradecanoic acid (PFTeA)	<0.76		2.1	0.76	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.1	0.31	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorohexanesulfonic acid (PFHxS)	<0.59		2.1	0.59	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorooctanesulfonic acid (PFOS)	<0.56		2.1	0.56	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.1	0.33	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/17/22 19:26	10/25/22 06:53	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/17/22 19:26	10/25/22 06:53	1
NEtFOSA	<0.91		2.1	0.91	ng/L		10/17/22 19:26	10/25/22 06:53	1
NMeFOSA	<0.45		2.1	0.45	ng/L		10/17/22 19:26	10/25/22 06:53	1
NMeFOSAA	<1.2		5.2	1.2	ng/L		10/17/22 19:26	10/25/22 06:53	1
NEtFOSAA	<1.4		5.2	1.4	ng/L		10/17/22 19:26	10/25/22 06:53	1
NMeFOSE	<1.5		4.2	1.5	ng/L		10/17/22 19:26	10/25/22 06:53	1
NEtFOSE	<0.89		2.1	0.89	ng/L		10/17/22 19:26	10/25/22 06:53	1
4:2 FTS	<0.25		2.1	0.25	ng/L		10/17/22 19:26	10/25/22 06:53	1
6:2 FTS	<2.6		5.2	2.6	ng/L		10/17/22 19:26	10/25/22 06:53	1
8:2 FTS	<0.48		2.1	0.48	ng/L		10/17/22 19:26	10/25/22 06:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.42		2.1	0.42	ng/L		10/17/22 19:26	10/25/22 06:53	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		10/17/22 19:26	10/25/22 06:53	1
9Cl-PF3ONS	<0.25		2.1	0.25	ng/L		10/17/22 19:26	10/25/22 06:53	1
11Cl-PF3OUdS	<0.33		2.1	0.33	ng/L		10/17/22 19:26	10/25/22 06:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	84		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C5 PFPeA	89		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C2 PFHxA	90		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C4 PFHpA	93		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C4 PFOA	93		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C5 PFNA	111		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C2 PFDA	95		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C2 PFUnA	106		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C2 PFDoA	93		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C2 PFTeDA	98		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C3 PFBS	87		25 - 150	10/17/22 19:26	10/25/22 06:53	1
18O2 PFHxS	94		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C4 PFOS	98		25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C8 FOSA	93		10 - 150	10/17/22 19:26	10/25/22 06:53	1
d3-NMeFOSAA	81		25 - 150	10/17/22 19:26	10/25/22 06:53	1
d5-NEtFOSAA	119		25 - 150	10/17/22 19:26	10/25/22 06:53	1
d-N-MeFOSA-M	47		10 - 150	10/17/22 19:26	10/25/22 06:53	1
d-N-EtFOSA-M	73		10 - 150	10/17/22 19:26	10/25/22 06:53	1
d7-N-MeFOSE-M	53		10 - 150	10/17/22 19:26	10/25/22 06:53	1
d9-N-EtFOSE-M	87		10 - 150	10/17/22 19:26	10/25/22 06:53	1
M2-4:2 FTS	96		25 - 150	10/17/22 19:26	10/25/22 06:53	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(253-276)-202210**

**Lab Sample ID: 320-93224-10**

Date Collected: 10/12/22 08:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	103		25 - 150	10/17/22 19:26	10/25/22 06:53	1
M2-8:2 FTS	253	*5+	25 - 150	10/17/22 19:26	10/25/22 06:53	1
13C3 HFPO-DA	99		25 - 150	10/17/22 19:26	10/25/22 06:53	1

**Client Sample ID: MP-02-(223-250)-202210**

**Lab Sample ID: 320-93224-11**

Date Collected: 10/12/22 08:35

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorooctanoic acid (PFOA)	<0.84		2.0	0.84	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorotetradecanoic acid (PFTTeA)	<0.72		2.0	0.72	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		10/19/22 04:20	11/08/22 23:52	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		10/19/22 04:20	11/08/22 23:52	1
NEtFOSA	<0.86		2.0	0.86	ng/L		10/19/22 04:20	11/08/22 23:52	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 04:20	11/08/22 23:52	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 04:20	11/08/22 23:52	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 04:20	11/08/22 23:52	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 04:20	11/08/22 23:52	1
NEtFOSE	<0.84		2.0	0.84	ng/L		10/19/22 04:20	11/08/22 23:52	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/08/22 23:52	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/19/22 04:20	11/08/22 23:52	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/19/22 04:20	11/08/22 23:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 04:20	11/08/22 23:52	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 04:20	11/08/22 23:52	1
9CI-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/08/22 23:52	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 04:20	11/08/22 23:52	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	92		25 - 150	10/19/22 04:20	11/08/22 23:52	1			
13C5 PFPeA	95		25 - 150	10/19/22 04:20	11/08/22 23:52	1			
13C2 PFHxA	95		25 - 150	10/19/22 04:20	11/08/22 23:52	1			

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(223-250)-202210**

**Lab Sample ID: 320-93224-11**

Date Collected: 10/12/22 08:35

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	102		25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C4 PFOA	99		25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C5 PFNA	110		25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C2 PFDA	104		25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C2 PFUnA	98		25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C2 PFDoA	80		25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C2 PFTeDA	77		25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C3 PFBS	93		25 - 150	10/19/22 04:20	11/08/22 23:52	1
18O2 PFHxS	95		25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C4 PFOS	94		25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C8 FOSA	98		10 - 150	10/19/22 04:20	11/08/22 23:52	1
d3-NMeFOSAA	73		25 - 150	10/19/22 04:20	11/08/22 23:52	1
d5-NEtFOSAA	102		25 - 150	10/19/22 04:20	11/08/22 23:52	1
d-N-MeFOSA-M	51		10 - 150	10/19/22 04:20	11/08/22 23:52	1
d-N-EtFOSA-M	79		10 - 150	10/19/22 04:20	11/08/22 23:52	1
d7-N-MeFOSE-M	50		10 - 150	10/19/22 04:20	11/08/22 23:52	1
d9-N-EtFOSE-M	91		10 - 150	10/19/22 04:20	11/08/22 23:52	1
M2-4:2 FTS	83		25 - 150	10/19/22 04:20	11/08/22 23:52	1
M2-6:2 FTS	97		25 - 150	10/19/22 04:20	11/08/22 23:52	1
M2-8:2 FTS	215	*5+	25 - 150	10/19/22 04:20	11/08/22 23:52	1
13C3 HFPO-DA	92		25 - 150	10/19/22 04:20	11/08/22 23:52	1

**Client Sample ID: MP-02-(198-220)-202210**

**Lab Sample ID: 320-93224-12**

Date Collected: 10/12/22 08:50

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	33		5.2	2.5	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluoropentanoic acid (PFPeA)	180		2.1	0.51	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorohexanoic acid (PFHxA)	99		2.1	0.61	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluoroheptanoic acid (PFHpA)	33		2.1	0.26	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorooctanoic acid (PFOA)	36		2.1	0.89	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorononanoic acid (PFNA)	2.3		2.1	0.28	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorodecanoic acid (PFDA)	<0.33		2.1	0.33	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorododecanoic acid (PFDoA)	<0.58		2.1	0.58	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorotridecanoic acid (PFTTrDA)	<1.4		2.1	1.4	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.77		2.1	0.77	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.1	0.31	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorohexanesulfonic acid (PFHxS)	0.85	J	2.1	0.60	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.57		2.1	0.57	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		10/19/22 04:20	10/30/22 18:38	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/19/22 04:20	10/30/22 18:38	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(198-220)-202210**

**Lab Sample ID: 320-93224-12**

Date Collected: 10/12/22 08:50

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/19/22 04:20	10/30/22 18:38	1
NEtFOSA	<0.91		2.1	0.91	ng/L		10/19/22 04:20	10/30/22 18:38	1
NMeFOSA	<0.45		2.1	0.45	ng/L		10/19/22 04:20	10/30/22 18:38	1
NMeFOSAA	<1.3		5.2	1.3	ng/L		10/19/22 04:20	10/30/22 18:38	1
NEtFOSAA	<1.4		5.2	1.4	ng/L		10/19/22 04:20	10/30/22 18:38	1
NMeFOSE	<1.5		4.2	1.5	ng/L		10/19/22 04:20	10/30/22 18:38	1
NEtFOSE	<0.89		2.1	0.89	ng/L		10/19/22 04:20	10/30/22 18:38	1
<b>4:2 FTS</b>	<b>6.3</b>		2.1	0.25	ng/L		10/19/22 04:20	10/30/22 18:38	1
<b>8:2 FTS</b>	<b>20</b>		2.1	0.48	ng/L		10/19/22 04:20	10/30/22 18:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.42		2.1	0.42	ng/L		10/19/22 04:20	10/30/22 18:38	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		10/19/22 04:20	10/30/22 18:38	1
11Cl-PF3OUdS	<0.34		2.1	0.34	ng/L		10/19/22 04:20	10/30/22 18:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	104		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C5 PFPeA	91		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C2 PFHxA	84		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C4 PFHpA	87		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C4 PFOA	88		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C5 PFNA	100		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C2 PFDA	92		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C2 PFUnA	77		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C2 PFDoA	85		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C2 PFTeDA	86		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C3 PFBS	78		25 - 150				10/19/22 04:20	10/30/22 18:38	1
18O2 PFHxS	82		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C4 PFOS	90		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C8 FOSA	89		10 - 150				10/19/22 04:20	10/30/22 18:38	1
d3-NMeFOSAA	77		25 - 150				10/19/22 04:20	10/30/22 18:38	1
d5-NEtFOSAA	85		25 - 150				10/19/22 04:20	10/30/22 18:38	1
d-N-MeFOSA-M	77		10 - 150				10/19/22 04:20	10/30/22 18:38	1
d-N-EtFOSA-M	69		10 - 150				10/19/22 04:20	10/30/22 18:38	1
d7-N-MeFOSE-M	68		10 - 150				10/19/22 04:20	10/30/22 18:38	1
d9-N-EtFOSE-M	64		10 - 150				10/19/22 04:20	10/30/22 18:38	1
M2-4:2 FTS	77		25 - 150				10/19/22 04:20	10/30/22 18:38	1
M2-8:2 FTS	79		25 - 150				10/19/22 04:20	10/30/22 18:38	1
13C3 HFPO-DA	80		25 - 150				10/19/22 04:20	10/30/22 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>6:2 FTS</b>	<b>610</b>		26	13	ng/L		10/19/22 04:20	11/05/22 03:49	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	78		25 - 150				10/19/22 04:20	11/05/22 03:49	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<0.25	H	2.1	0.25	ng/L		10/19/22 04:20	11/24/22 17:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	97		25 - 150				10/19/22 04:20	11/24/22 17:45	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(153-195)-202210-A**

**Lab Sample ID: 320-93224-13**

Date Collected: 10/12/22 09:10

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	71		5.2	2.5	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluoropentanoic acid (PFPeA)	410		2.1	0.51	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorohexanoic acid (PFHxA)	230		2.1	0.60	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluoroheptanoic acid (PFHpA)	99		2.1	0.26	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorooctanoic acid (PFOA)	120		2.1	0.88	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorononanoic acid (PFNA)	18		2.1	0.28	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorodecanoic acid (PFDA)	3.3		2.1	0.32	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.1	1.1	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorododecanoic acid (PFDoA)	<0.57		2.1	0.57	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.1	1.4	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorotetradecanoic acid (PFTeA)	<0.76		2.1	0.76	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorobutanesulfonic acid (PFBS)	0.54	J	2.1	0.21	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.1	0.31	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorohexanesulfonic acid (PFHxS)	0.81	J	2.1	0.59	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorooctanesulfonic acid (PFOS)	3.4		2.1	0.56	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.1	0.38	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.1	0.33	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/19/22 04:20	10/30/22 18:48	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/19/22 04:20	10/30/22 18:48	1
NEtFOSA	<0.90		2.1	0.90	ng/L		10/19/22 04:20	10/30/22 18:48	1
NMeFOSA	<0.45		2.1	0.45	ng/L		10/19/22 04:20	10/30/22 18:48	1
NMeFOSAA	<1.2		5.2	1.2	ng/L		10/19/22 04:20	10/30/22 18:48	1
NEtFOSAA	<1.4		5.2	1.4	ng/L		10/19/22 04:20	10/30/22 18:48	1
NMeFOSE	<1.5		4.2	1.5	ng/L		10/19/22 04:20	10/30/22 18:48	1
NEtFOSE	<0.88		2.1	0.88	ng/L		10/19/22 04:20	10/30/22 18:48	1
4:2 FTS	3.2		2.1	0.25	ng/L		10/19/22 04:20	10/30/22 18:48	1
8:2 FTS	140		2.1	0.48	ng/L		10/19/22 04:20	10/30/22 18:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.42		2.1	0.42	ng/L		10/19/22 04:20	10/30/22 18:48	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		10/19/22 04:20	10/30/22 18:48	1
11CI-PF3OUdS	<0.33		2.1	0.33	ng/L		10/19/22 04:20	10/30/22 18:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	120		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C5 PFPeA	98		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C2 PFHxA	91		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C4 PFHpA	97		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C4 PFOA	97		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C5 PFNA	105		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C2 PFDA	104		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C2 PFUnA	87		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C2 PFDoA	87		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C2 PFTrDA	82		25 - 150				10/19/22 04:20	10/30/22 18:48	1
13C3 PFBS	84		25 - 150				10/19/22 04:20	10/30/22 18:48	1
18O2 PFHxS	98		25 - 150				10/19/22 04:20	10/30/22 18:48	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(153-195)-202210-A**

**Lab Sample ID: 320-93224-13**

Date Collected: 10/12/22 09:10

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	101		25 - 150	10/19/22 04:20	10/30/22 18:48	1
13C8 FOSA	101		10 - 150	10/19/22 04:20	10/30/22 18:48	1
d3-NMeFOSAA	83		25 - 150	10/19/22 04:20	10/30/22 18:48	1
d5-NEtFOSAA	83		25 - 150	10/19/22 04:20	10/30/22 18:48	1
d-N-MeFOSA-M	73		10 - 150	10/19/22 04:20	10/30/22 18:48	1
d-N-EtFOSA-M	73		10 - 150	10/19/22 04:20	10/30/22 18:48	1
d7-N-MeFOSE-M	68		10 - 150	10/19/22 04:20	10/30/22 18:48	1
d9-N-EtFOSE-M	73		10 - 150	10/19/22 04:20	10/30/22 18:48	1
M2-4:2 FTS	88		25 - 150	10/19/22 04:20	10/30/22 18:48	1
M2-8:2 FTS	100		25 - 150	10/19/22 04:20	10/30/22 18:48	1
13C3 HFPO-DA	89		25 - 150	10/19/22 04:20	10/30/22 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	920		26	13	ng/L		10/19/22 04:20	11/05/22 03:59	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
M2-6:2 FTS	88		25 - 150	10/19/22 04:20	11/05/22 03:59	5			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<0.25	H	2.1	0.25	ng/L		10/19/22 04:20	11/24/22 17:55	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFOS	99		25 - 150	10/19/22 04:20	11/24/22 17:55	1			

**Client Sample ID: MP-02-(153-195)-202210-B**

**Lab Sample ID: 320-93224-14**

Date Collected: 10/12/22 10:05

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	73		5.0	2.4	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluoropentanoic acid (PFPeA)	360		2.0	0.49	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorohexanoic acid (PFHxA)	220		2.0	0.58	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluoroheptanoic acid (PFHpA)	99		2.0	0.25	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorooctanoic acid (PFOA)	110		2.0	0.85	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorononanoic acid (PFNA)	12		2.0	0.27	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorodecanoic acid (PFDA)	2.3		2.0	0.31	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorobutanesulfonic acid (PFBS)	0.45	J	2.0	0.20	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorohexanesulfonic acid (PFHxS)	0.91	J	2.0	0.57	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorooctanesulfonic acid (PFOS)	3.0		2.0	0.54	ng/L		10/19/22 04:20	10/30/22 18:58	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(153-195)-202210-B**

**Lab Sample ID: 320-93224-14**

**Date Collected: 10/12/22 10:05**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.98		2.0	0.98	ng/L		10/19/22 04:20	10/30/22 18:58	1
Perfluorooctanesulfonamide (FOSA)	<0.99		2.0	0.99	ng/L		10/19/22 04:20	10/30/22 18:58	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/19/22 04:20	10/30/22 18:58	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 04:20	10/30/22 18:58	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 04:20	10/30/22 18:58	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 04:20	10/30/22 18:58	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 04:20	10/30/22 18:58	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/19/22 04:20	10/30/22 18:58	1
<b>4:2 FTS</b>	<b>4.4</b>		2.0	0.24	ng/L		10/19/22 04:20	10/30/22 18:58	1
<b>8:2 FTS</b>	<b>120</b>		2.0	0.46	ng/L		10/19/22 04:20	10/30/22 18:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 04:20	10/30/22 18:58	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 04:20	10/30/22 18:58	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 04:20	10/30/22 18:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	112		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C5 PFPeA	94		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C2 PFHxA	92		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C4 PFHpA	93		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C4 PFOA	91		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C5 PFNA	105		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C2 PFDA	98		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C2 PFUnA	88		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C2 PFDoA	82		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C2 PFTeDA	82		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C3 PFBS	81		25 - 150	10/19/22 04:20	10/30/22 18:58	1
18O2 PFHxS	97		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C4 PFOS	98		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C8 FOSA	98		10 - 150	10/19/22 04:20	10/30/22 18:58	1
d3-NMeFOSAA	75		25 - 150	10/19/22 04:20	10/30/22 18:58	1
d5-NEtFOSAA	79		25 - 150	10/19/22 04:20	10/30/22 18:58	1
d-N-MeFOSA-M	66		10 - 150	10/19/22 04:20	10/30/22 18:58	1
d-N-EtFOSA-M	73		10 - 150	10/19/22 04:20	10/30/22 18:58	1
d7-N-MeFOSE-M	60		10 - 150	10/19/22 04:20	10/30/22 18:58	1
d9-N-EtFOSE-M	79		10 - 150	10/19/22 04:20	10/30/22 18:58	1
M2-4:2 FTS	88		25 - 150	10/19/22 04:20	10/30/22 18:58	1
M2-8:2 FTS	100		25 - 150	10/19/22 04:20	10/30/22 18:58	1
13C3 HFPO-DA	87		25 - 150	10/19/22 04:20	10/30/22 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>6:2 FTS</b>	<b>640</b>		25	13	ng/L		10/19/22 04:20	11/05/22 04:09	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
M2-6:2 FTS	100		25 - 150	10/19/22 04:20	11/05/22 04:09	5			

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(153-195)-202210-B**

**Lab Sample ID: 320-93224-14**

Date Collected: 10/12/22 10:05

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<0.24	H	2.0	0.24	ng/L		10/19/22 04:20	11/24/22 18:05	1
<b>Isotope Dilution</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFOS	103		25 - 150				10/19/22 04:20	11/24/22 18:05	1

**Client Sample ID: MP-02-(153-195)-202210-C**

**Lab Sample ID: 320-93224-15**

Date Collected: 10/12/22 11:25

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	77		5.3	2.5	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluoropentanoic acid (PFPeA)	360		2.1	0.51	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorohexanoic acid (PFHxA)	200		2.1	0.61	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluoroheptanoic acid (PFHpA)	94		2.1	0.26	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorooctanoic acid (PFOA)	100		2.1	0.89	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorononanoic acid (PFNA)	13		2.1	0.28	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorodecanoic acid (PFDA)	2.6		2.1	0.33	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorododecanoic acid (PFDoA)	<0.58		2.1	0.58	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.1	1.4	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.77		2.1	0.77	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorobutanesulfonic acid (PFBS)	0.41	J	2.1	0.21	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.32		2.1	0.32	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorohexanesulfonic acid (PFHxS)	0.99	J	2.1	0.60	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorooctanesulfonic acid (PFOS)	2.9		2.1	0.57	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/19/22 04:20	10/30/22 19:38	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/19/22 04:20	10/30/22 19:38	1
NEtFOSA	<0.91		2.1	0.91	ng/L		10/19/22 04:20	10/30/22 19:38	1
NMeFOSA	<0.45		2.1	0.45	ng/L		10/19/22 04:20	10/30/22 19:38	1
NMeFOSAA	<1.3		5.3	1.3	ng/L		10/19/22 04:20	10/30/22 19:38	1
NEtFOSAA	<1.4		5.3	1.4	ng/L		10/19/22 04:20	10/30/22 19:38	1
NMeFOSE	<1.5		4.2	1.5	ng/L		10/19/22 04:20	10/30/22 19:38	1
NEtFOSE	<0.89		2.1	0.89	ng/L		10/19/22 04:20	10/30/22 19:38	1
4:2 FTS	3.6		2.1	0.25	ng/L		10/19/22 04:20	10/30/22 19:38	1
8:2 FTS	150		2.1	0.48	ng/L		10/19/22 04:20	10/30/22 19:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.42		2.1	0.42	ng/L		10/19/22 04:20	10/30/22 19:38	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		10/19/22 04:20	10/30/22 19:38	1
11CI-PF3OUdS	<0.34		2.1	0.34	ng/L		10/19/22 04:20	10/30/22 19:38	1
<b>Isotope Dilution</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	107		25 - 150				10/19/22 04:20	10/30/22 19:38	1
13C5 PFPeA	99		25 - 150				10/19/22 04:20	10/30/22 19:38	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(153-195)-202210-C**

**Lab Sample ID: 320-93224-15**

Date Collected: 10/12/22 11:25

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C4 PFHpA	97		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C4 PFOA	95		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C5 PFNA	112		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C2 PFDA	105		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C2 PFUnA	90		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C2 PFDoA	82		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C2 PFTeDA	75		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C3 PFBS	89		25 - 150	10/19/22 04:20	10/30/22 19:38	1
18O2 PFHxS	91		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C4 PFOS	98		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C8 FOSA	95		10 - 150	10/19/22 04:20	10/30/22 19:38	1
d3-NMeFOSAA	70		25 - 150	10/19/22 04:20	10/30/22 19:38	1
d5-NEtFOSAA	76		25 - 150	10/19/22 04:20	10/30/22 19:38	1
d-N-MeFOSA-M	67		10 - 150	10/19/22 04:20	10/30/22 19:38	1
d-N-EtFOSA-M	68		10 - 150	10/19/22 04:20	10/30/22 19:38	1
d7-N-MeFOSE-M	64		10 - 150	10/19/22 04:20	10/30/22 19:38	1
d9-N-EtFOSE-M	63		10 - 150	10/19/22 04:20	10/30/22 19:38	1
M2-4:2 FTS	92		25 - 150	10/19/22 04:20	10/30/22 19:38	1
M2-8:2 FTS	97		25 - 150	10/19/22 04:20	10/30/22 19:38	1
13C3 HFPO-DA	88		25 - 150	10/19/22 04:20	10/30/22 19:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	920		26	13	ng/L		10/19/22 04:20	11/05/22 04:20	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
M2-6:2 FTS	88		25 - 150	10/19/22 04:20	11/05/22 04:20	5			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<0.25	H	2.1	0.25	ng/L		10/19/22 04:20	11/24/22 18:15	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFOS	104		25 - 150	10/19/22 04:20	11/24/22 18:15	1			

**Client Sample ID: MP-03-(280-300)-202210**

**Lab Sample ID: 320-93224-16**

Date Collected: 10/11/22 13:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.5		5.1	2.5	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluoropentanoic acid (PFPeA)	<0.50		2.0	0.50	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorohexanoic acid (PFHxA)	<0.59		2.0	0.59	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.0	0.26	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorooctanoic acid (PFOA)	<0.87		2.0	0.87	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorononanoic acid (PFNA)	<0.28		2.0	0.28	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorodecanoic acid (PFDA)	<0.32		2.0	0.32	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.0	0.56	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:20	11/05/22 01:58	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(280-300)-202210**

**Lab Sample ID: 320-93224-16**

Date Collected: 10/11/22 13:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	<0.75		2.0	0.75	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.0	0.31	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorohexanesulfonic acid (PFHxS)	<0.58		2.0	0.58	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorooctanesulfonic acid (PFOS)	<0.55		2.0	0.55	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.0	0.38	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.0	0.33	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.99		2.0	0.99	ng/L		10/19/22 04:20	11/05/22 01:58	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.0	1.0	ng/L		10/19/22 04:20	11/05/22 01:58	1
NEtFOSA	<0.89		2.0	0.89	ng/L		10/19/22 04:20	11/05/22 01:58	1
NMeFOSA	<0.44		2.0	0.44	ng/L		10/19/22 04:20	11/05/22 01:58	1
NMeFOSAA	<1.2		5.1	1.2	ng/L		10/19/22 04:20	11/05/22 01:58	1
NEtFOSAA	<1.3		5.1	1.3	ng/L		10/19/22 04:20	11/05/22 01:58	1
NMeFOSE	<1.4		4.1	1.4	ng/L		10/19/22 04:20	11/05/22 01:58	1
NEtFOSE	<0.87		2.0	0.87	ng/L		10/19/22 04:20	11/05/22 01:58	1
4:2 FTS	<0.25		2.0	0.25	ng/L		10/19/22 04:20	11/05/22 01:58	1
6:2 FTS	<2.6		5.1	2.6	ng/L		10/19/22 04:20	11/05/22 01:58	1
8:2 FTS	<0.47		2.0	0.47	ng/L		10/19/22 04:20	11/05/22 01:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.41		2.0	0.41	ng/L		10/19/22 04:20	11/05/22 01:58	1
HFPO-DA (GenX)	<1.5		4.1	1.5	ng/L		10/19/22 04:20	11/05/22 01:58	1
9Cl-PF3ONS	<0.25		2.0	0.25	ng/L		10/19/22 04:20	11/05/22 01:58	1
11Cl-PF3OUdS	<0.33		2.0	0.33	ng/L		10/19/22 04:20	11/05/22 01:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C5 PFPeA	96		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C2 PFHxA	97		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C4 PFHpA	100		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C4 PFOA	95		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C5 PFNA	122		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C2 PFDA	97		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C2 PFUnA	101		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C2 PFDoA	103		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C2 PFTeDA	94		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C3 PFBS	95		25 - 150	10/19/22 04:20	11/05/22 01:58	1
18O2 PFHxS	102		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C4 PFOS	104		25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C8 FOSA	96		10 - 150	10/19/22 04:20	11/05/22 01:58	1
d3-NMeFOSAA	83		25 - 150	10/19/22 04:20	11/05/22 01:58	1
d5-NEtFOSAA	94		25 - 150	10/19/22 04:20	11/05/22 01:58	1
d-N-MeFOSA-M	71		10 - 150	10/19/22 04:20	11/05/22 01:58	1
d-N-EtFOSA-M	86		10 - 150	10/19/22 04:20	11/05/22 01:58	1
d7-N-MeFOSE-M	75		10 - 150	10/19/22 04:20	11/05/22 01:58	1
d9-N-EtFOSE-M	103		10 - 150	10/19/22 04:20	11/05/22 01:58	1
M2-4:2 FTS	82		25 - 150	10/19/22 04:20	11/05/22 01:58	1
M2-6:2 FTS	80		25 - 150	10/19/22 04:20	11/05/22 01:58	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(280-300)-202210**

**Lab Sample ID: 320-93224-16**

Date Collected: 10/11/22 13:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	161	*5+	25 - 150	10/19/22 04:20	11/05/22 01:58	1
13C3 HFPO-DA	86		25 - 150	10/19/22 04:20	11/05/22 01:58	1

**Client Sample ID: MP-03-(245-277)-202210**

**Lab Sample ID: 320-93224-17**

Date Collected: 10/11/22 13:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		4.9	2.4	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorooctanoic acid (PFOA)	<0.84		2.0	0.84	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		10/19/22 04:20	11/05/22 02:08	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		10/19/22 04:20	11/05/22 02:08	1
NEtFOSA	<0.86		2.0	0.86	ng/L		10/19/22 04:20	11/05/22 02:08	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/19/22 04:20	11/05/22 02:08	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		10/19/22 04:20	11/05/22 02:08	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		10/19/22 04:20	11/05/22 02:08	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/19/22 04:20	11/05/22 02:08	1
NEtFOSE	<0.84		2.0	0.84	ng/L		10/19/22 04:20	11/05/22 02:08	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/05/22 02:08	1
6:2 FTS	<2.5		4.9	2.5	ng/L		10/19/22 04:20	11/05/22 02:08	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/19/22 04:20	11/05/22 02:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		2.0	0.39	ng/L		10/19/22 04:20	11/05/22 02:08	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/19/22 04:20	11/05/22 02:08	1
9CI-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/05/22 02:08	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 04:20	11/05/22 02:08	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	93		25 - 150	10/19/22 04:20	11/05/22 02:08	1			
13C5 PFPeA	100		25 - 150	10/19/22 04:20	11/05/22 02:08	1			
13C2 PFHxA	97		25 - 150	10/19/22 04:20	11/05/22 02:08	1			
13C4 PFHpA	100		25 - 150	10/19/22 04:20	11/05/22 02:08	1			

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(245-277)-202210**

**Lab Sample ID: 320-93224-17**

Date Collected: 10/11/22 13:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	97		25 - 150	10/19/22 04:20	11/05/22 02:08	1
13C5 PFNA	100		25 - 150	10/19/22 04:20	11/05/22 02:08	1
13C2 PFDA	94		25 - 150	10/19/22 04:20	11/05/22 02:08	1
13C2 PFUnA	102		25 - 150	10/19/22 04:20	11/05/22 02:08	1
13C2 PFDoA	102		25 - 150	10/19/22 04:20	11/05/22 02:08	1
13C2 PFTeDA	97		25 - 150	10/19/22 04:20	11/05/22 02:08	1
13C3 PFBS	95		25 - 150	10/19/22 04:20	11/05/22 02:08	1
18O2 PFHxS	103		25 - 150	10/19/22 04:20	11/05/22 02:08	1
13C4 PFOS	101		25 - 150	10/19/22 04:20	11/05/22 02:08	1
13C8 FOSA	96		10 - 150	10/19/22 04:20	11/05/22 02:08	1
d3-NMeFOSAA	88		25 - 150	10/19/22 04:20	11/05/22 02:08	1
d5-NEtFOSAA	88		25 - 150	10/19/22 04:20	11/05/22 02:08	1
d-N-MeFOSA-M	82		10 - 150	10/19/22 04:20	11/05/22 02:08	1
d-N-EtFOSA-M	87		10 - 150	10/19/22 04:20	11/05/22 02:08	1
d7-N-MeFOSE-M	84		10 - 150	10/19/22 04:20	11/05/22 02:08	1
d9-N-EtFOSE-M	101		10 - 150	10/19/22 04:20	11/05/22 02:08	1
M2-4:2 FTS	81		25 - 150	10/19/22 04:20	11/05/22 02:08	1
M2-6:2 FTS	83		25 - 150	10/19/22 04:20	11/05/22 02:08	1
M2-8:2 FTS	124		25 - 150	10/19/22 04:20	11/05/22 02:08	1
13C3 HFPO-DA	92		25 - 150	10/19/22 04:20	11/05/22 02:08	1

**Client Sample ID: MP-03-(220-242)-202210**

**Lab Sample ID: 320-93224-18**

Date Collected: 10/11/22 13:45

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluoroheptanoic acid (PFHpA)	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorooctanoic acid (PFOA)	<0.83		2.0	0.83	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorononanoic acid (PFNA)	<0.26		2.0	0.26	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		2.0	0.71	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		2.0	0.29	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		10/19/22 04:20	11/05/22 02:18	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/19/22 04:20	11/05/22 02:18	1
NEtFOSA	<0.85		2.0	0.85	ng/L		10/19/22 04:20	11/05/22 02:18	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(220-242)-202210**

**Lab Sample ID: 320-93224-18**

Date Collected: 10/11/22 13:45

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	<0.42		2.0	0.42	ng/L		10/19/22 04:20	11/05/22 02:18	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		10/19/22 04:20	11/05/22 02:18	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		10/19/22 04:20	11/05/22 02:18	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/19/22 04:20	11/05/22 02:18	1
NEtFOSE	<0.83		2.0	0.83	ng/L		10/19/22 04:20	11/05/22 02:18	1
4:2 FTS	<0.23		2.0	0.23	ng/L		10/19/22 04:20	11/05/22 02:18	1
6:2 FTS	<2.4		4.9	2.4	ng/L		10/19/22 04:20	11/05/22 02:18	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/19/22 04:20	11/05/22 02:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		2.0	0.39	ng/L		10/19/22 04:20	11/05/22 02:18	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/19/22 04:20	11/05/22 02:18	1
9Cl-PF3ONS	<0.23		2.0	0.23	ng/L		10/19/22 04:20	11/05/22 02:18	1
11Cl-PF3OUdS	<0.31		2.0	0.31	ng/L		10/19/22 04:20	11/05/22 02:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	64		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C5 PFPeA	71		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C2 PFHxA	67		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C4 PFHpA	69		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C4 PFOA	66		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C5 PFNA	71		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C2 PFDA	76		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C2 PFUnA	74		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C2 PFDoA	61		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C2 PFTeDA	58		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C3 PFBS	72		25 - 150				10/19/22 04:20	11/05/22 02:18	1
18O2 PFHxS	70		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C4 PFOS	71		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C8 FOSA	71		10 - 150				10/19/22 04:20	11/05/22 02:18	1
d3-NMeFOSAA	49		25 - 150				10/19/22 04:20	11/05/22 02:18	1
d5-NEtFOSAA	67		25 - 150				10/19/22 04:20	11/05/22 02:18	1
d-N-MeFOSA-M	36		10 - 150				10/19/22 04:20	11/05/22 02:18	1
d-N-EtFOSA-M	52		10 - 150				10/19/22 04:20	11/05/22 02:18	1
d7-N-MeFOSE-M	36		10 - 150				10/19/22 04:20	11/05/22 02:18	1
d9-N-EtFOSE-M	69		10 - 150				10/19/22 04:20	11/05/22 02:18	1
M2-4:2 FTS	58		25 - 150				10/19/22 04:20	11/05/22 02:18	1
M2-6:2 FTS	65		25 - 150				10/19/22 04:20	11/05/22 02:18	1
M2-8:2 FTS	144		25 - 150				10/19/22 04:20	11/05/22 02:18	1
13C3 HFPO-DA	62		25 - 150				10/19/22 04:20	11/05/22 02:18	1

**Client Sample ID: MP-03-(190-217)-202210**

**Lab Sample ID: 320-93224-19**

Date Collected: 10/11/22 14:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.6		5.5	2.6	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluoropentanoic acid (PFPeA)	3.2		2.2	0.53	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorohexanoic acid (PFHxA)	2.0	J	2.2	0.63	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluoroheptanoic acid (PFHpA)	1.6	J	2.2	0.27	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorooctanoic acid (PFOA)	1.0	J	2.2	0.93	ng/L		10/19/22 04:20	11/05/22 02:28	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(190-217)-202210**

**Lab Sample ID: 320-93224-19**

**Date Collected: 10/11/22 14:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	<0.29		2.2	0.29	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorodecanoic acid (PFDA)	<0.34		2.2	0.34	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.2	1.2	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorododecanoic acid (PFDoA)	<0.60		2.2	0.60	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.2	1.4	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.80		2.2	0.80	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorobutanesulfonic acid (PFBS)	<0.22		2.2	0.22	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.33		2.2	0.33	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.62		2.2	0.62	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.21		2.2	0.21	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorooctanesulfonic acid (PFOS)	<0.59		2.2	0.59	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorononanesulfonic acid (PFNS)	<0.40		2.2	0.40	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.35		2.2	0.35	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorododecanesulfonic acid (PFDoS)	<1.1		2.2	1.1	ng/L		10/19/22 04:20	11/05/22 02:28	1
Perfluorooctanesulfonamide (FOSA)	<1.1		2.2	1.1	ng/L		10/19/22 04:20	11/05/22 02:28	1
NEtFOSA	<0.95		2.2	0.95	ng/L		10/19/22 04:20	11/05/22 02:28	1
NMeFOSA	<0.47		2.2	0.47	ng/L		10/19/22 04:20	11/05/22 02:28	1
NMeFOSAA	<1.3		5.5	1.3	ng/L		10/19/22 04:20	11/05/22 02:28	1
NEtFOSAA	<1.4		5.5	1.4	ng/L		10/19/22 04:20	11/05/22 02:28	1
NMeFOSE	<1.5		4.4	1.5	ng/L		10/19/22 04:20	11/05/22 02:28	1
NEtFOSE	<0.93		2.2	0.93	ng/L		10/19/22 04:20	11/05/22 02:28	1
4:2 FTS	<0.26		2.2	0.26	ng/L		10/19/22 04:20	11/05/22 02:28	1
<b>6:2 FTS</b>	<b>15</b>		5.5	2.7	ng/L		10/19/22 04:20	11/05/22 02:28	1
<b>8:2 FTS</b>	<b>1.2 J</b>		2.2	0.50	ng/L		10/19/22 04:20	11/05/22 02:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.44		2.2	0.44	ng/L		10/19/22 04:20	11/05/22 02:28	1
HFPO-DA (GenX)	<1.6		4.4	1.6	ng/L		10/19/22 04:20	11/05/22 02:28	1
9Cl-PF3ONS	<0.26		2.2	0.26	ng/L		10/19/22 04:20	11/05/22 02:28	1
11Cl-PF3OUdS	<0.35		2.2	0.35	ng/L		10/19/22 04:20	11/05/22 02:28	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C5 PFPeA	104		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C2 PFHxA	95		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C4 PFHpA	96		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C4 PFOA	98		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C5 PFNA	97		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C2 PFDA	98		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C2 PFUnA	102		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C2 PFDoA	110		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C2 PFTeDA	104		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C3 PFBS	103		25 - 150	10/19/22 04:20	11/05/22 02:28	1
18O2 PFHxS	100		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C4 PFOS	102		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C8 FOSA	105		10 - 150	10/19/22 04:20	11/05/22 02:28	1
d3-NMeFOSAA	79		25 - 150	10/19/22 04:20	11/05/22 02:28	1
d5-NEtFOSAA	83		25 - 150	10/19/22 04:20	11/05/22 02:28	1
d-N-MeFOSA-M	91		10 - 150	10/19/22 04:20	11/05/22 02:28	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(190-217)-202210**

**Lab Sample ID: 320-93224-19**

Date Collected: 10/11/22 14:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d-N-EtFOSA-M	90		10 - 150	10/19/22 04:20	11/05/22 02:28	1
d7-N-MeFOSE-M	91		10 - 150	10/19/22 04:20	11/05/22 02:28	1
d9-N-EtFOSE-M	101		10 - 150	10/19/22 04:20	11/05/22 02:28	1
M2-4:2 FTS	77		25 - 150	10/19/22 04:20	11/05/22 02:28	1
M2-6:2 FTS	83		25 - 150	10/19/22 04:20	11/05/22 02:28	1
M2-8:2 FTS	112		25 - 150	10/19/22 04:20	11/05/22 02:28	1
13C3 HFPO-DA	89		25 - 150	10/19/22 04:20	11/05/22 02:28	1

**Client Sample ID: MP-03-(160-187)-202210**

**Lab Sample ID: 320-93224-20**

Date Collected: 10/11/22 14:15

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	51		5.0	2.4	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluoropentanoic acid (PFPeA)	330		2.0	0.49	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorohexanoic acid (PFHxA)	160		2.0	0.58	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluoroheptanoic acid (PFHpA)	69		2.0	0.25	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorooctanoic acid (PFOA)	63		2.0	0.85	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorononanoic acid (PFNA)	5.6		2.0	0.27	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorodecanoic acid (PFDA)	0.75	J	2.0	0.31	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorobutanesulfonic acid (PFBS)	0.26	J	2.0	0.20	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorohexanesulfonic acid (PFHxS)	0.91	J	2.0	0.57	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorooctanesulfonic acid (PFOS)	2.0		2.0	0.54	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/19/22 04:20	10/30/22 20:29	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/19/22 04:20	10/30/22 20:29	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/19/22 04:20	10/30/22 20:29	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 04:20	10/30/22 20:29	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 04:20	10/30/22 20:29	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 04:20	10/30/22 20:29	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 04:20	10/30/22 20:29	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/19/22 04:20	10/30/22 20:29	1
4:2 FTS	3.6		2.0	0.24	ng/L		10/19/22 04:20	10/30/22 20:29	1
8:2 FTS	36		2.0	0.46	ng/L		10/19/22 04:20	10/30/22 20:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 04:20	10/30/22 20:29	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 04:20	10/30/22 20:29	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 04:20	10/30/22 20:29	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(160-187)-202210**

**Lab Sample ID: 320-93224-20**

Date Collected: 10/11/22 14:15

Matrix: Water

Date Received: 10/14/22 14:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	111		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C5 PFPeA	94		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C2 PFHxA	89		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C4 PFHpA	87		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C4 PFOA	95		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C5 PFNA	99		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C2 PFDA	97		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C2 PFUnA	78		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C2 PFDoA	85		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C2 PFTeDA	84		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C3 PFBS	84		25 - 150	10/19/22 04:20	10/30/22 20:29	1
18O2 PFHxS	87		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C4 PFOS	95		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C8 FOSA	94		10 - 150	10/19/22 04:20	10/30/22 20:29	1
d3-NMeFOSAA	82		25 - 150	10/19/22 04:20	10/30/22 20:29	1
d5-NEtFOSAA	83		25 - 150	10/19/22 04:20	10/30/22 20:29	1
d-N-MeFOSA-M	82		10 - 150	10/19/22 04:20	10/30/22 20:29	1
d-N-EtFOSA-M	79		10 - 150	10/19/22 04:20	10/30/22 20:29	1
d7-N-MeFOSE-M	70		10 - 150	10/19/22 04:20	10/30/22 20:29	1
d9-N-EtFOSE-M	73		10 - 150	10/19/22 04:20	10/30/22 20:29	1
M2-4:2 FTS	85		25 - 150	10/19/22 04:20	10/30/22 20:29	1
M2-8:2 FTS	97		25 - 150	10/19/22 04:20	10/30/22 20:29	1
13C3 HFPO-DA	84		25 - 150	10/19/22 04:20	10/30/22 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	460		25	13	ng/L		10/19/22 04:20	11/05/22 04:30	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
M2-6:2 FTS	90		25 - 150	10/19/22 04:20	11/05/22 04:30	5			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<0.24	H	2.0	0.24	ng/L		10/19/22 04:20	11/24/22 18:25	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFOS	104		25 - 150	10/19/22 04:20	11/24/22 18:25	1			

**Client Sample ID: MP-03-(120-157)-202210**

**Lab Sample ID: 320-93224-21**

Date Collected: 10/11/22 14:25

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	19		5.1	2.4	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluoropentanoic acid (PFPeA)	29		2.0	0.50	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorohexanoic acid (PFHxA)	16		2.0	0.59	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluoroheptanoic acid (PFHpA)	13		2.0	0.25	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorooctanoic acid (PFOA)	9.1		2.0	0.86	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorononanoic acid (PFNA)	0.59	J	2.0	0.27	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.0	0.56	ng/L		10/19/22 04:20	11/09/22 00:12	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(120-157)-202210**

**Lab Sample ID: 320-93224-21**

**Date Collected: 10/11/22 14:25**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.74		2.0	0.74	ng/L		10/19/22 04:20	11/09/22 00:12	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.66</b>	<b>J</b>	2.0	0.20	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorohexanesulfonic acid (PFHxS)	<0.58		2.0	0.58	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:20	11/09/22 00:12	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>3.9</b>		2.0	0.55	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.0	0.38	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.98		2.0	0.98	ng/L		10/19/22 04:20	11/09/22 00:12	1
Perfluorooctanesulfonamide (FOSA)	<0.99		2.0	0.99	ng/L		10/19/22 04:20	11/09/22 00:12	1
NEtFOSA	<0.88		2.0	0.88	ng/L		10/19/22 04:20	11/09/22 00:12	1
NMeFOSA	<0.44		2.0	0.44	ng/L		10/19/22 04:20	11/09/22 00:12	1
NMeFOSAA	<1.2		5.1	1.2	ng/L		10/19/22 04:20	11/09/22 00:12	1
NEtFOSAA	<1.3		5.1	1.3	ng/L		10/19/22 04:20	11/09/22 00:12	1
NMeFOSE	<1.4		4.1	1.4	ng/L		10/19/22 04:20	11/09/22 00:12	1
NEtFOSE	<0.86		2.0	0.86	ng/L		10/19/22 04:20	11/09/22 00:12	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/09/22 00:12	1
6:2 FTS	<2.5		5.1	2.5	ng/L		10/19/22 04:20	11/09/22 00:12	1
8:2 FTS	<0.47		2.0	0.47	ng/L		10/19/22 04:20	11/09/22 00:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.41		2.0	0.41	ng/L		10/19/22 04:20	11/09/22 00:12	1
HFPO-DA (GenX)	<1.5		4.1	1.5	ng/L		10/19/22 04:20	11/09/22 00:12	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/09/22 00:12	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 04:20	11/09/22 00:12	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	95		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C5 PFPeA	96		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C2 PFHxA	97		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C4 PFHpA	100		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C4 PFOA	98		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C5 PFNA	116		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C2 PFDA	104		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C2 PFUnA	104		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C2 PFDoA	91		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C2 PFTeDA	93		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C3 PFBS	102		25 - 150				10/19/22 04:20	11/09/22 00:12	1
18O2 PFHxS	94		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C4 PFOS	101		25 - 150				10/19/22 04:20	11/09/22 00:12	1
13C8 FOSA	108		10 - 150				10/19/22 04:20	11/09/22 00:12	1
d3-NMeFOSAA	88		25 - 150				10/19/22 04:20	11/09/22 00:12	1
d5-NEtFOSAA	108		25 - 150				10/19/22 04:20	11/09/22 00:12	1
d-N-MeFOSA-M	73		10 - 150				10/19/22 04:20	11/09/22 00:12	1
d-N-EtFOSA-M	92		10 - 150				10/19/22 04:20	11/09/22 00:12	1
d7-N-MeFOSE-M	71		10 - 150				10/19/22 04:20	11/09/22 00:12	1
d9-N-EtFOSE-M	94		10 - 150				10/19/22 04:20	11/09/22 00:12	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(120-157)-202210**

**Lab Sample ID: 320-93224-21**

Date Collected: 10/11/22 14:25

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	94		25 - 150	10/19/22 04:20	11/09/22 00:12	1
M2-6:2 FTS	86		25 - 150	10/19/22 04:20	11/09/22 00:12	1
M2-8:2 FTS	195	*5+	25 - 150	10/19/22 04:20	11/09/22 00:12	1
13C3 HFPO-DA	94		25 - 150	10/19/22 04:20	11/09/22 00:12	1

**Client Sample ID: MP-03-(083-117)-202210**

**Lab Sample ID: 320-93224-22**

Date Collected: 10/11/22 14:45

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	27		5.2	2.5	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluoropentanoic acid (PFPeA)	48		2.1	0.51	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorohexanoic acid (PFHxA)	24		2.1	0.61	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluoroheptanoic acid (PFHpA)	50		2.1	0.26	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorooctanoic acid (PFOA)	20		2.1	0.89	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorononanoic acid (PFNA)	2.2		2.1	0.28	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorodecanoic acid (PFDA)	0.78	J	2.1	0.32	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorododecanoic acid (PFDoA)	<0.58		2.1	0.58	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorotridecanoic acid (PFTTrDA)	<1.4		2.1	1.4	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorotetradecanoic acid (PFTeA)	<0.76		2.1	0.76	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorobutanesulfonic acid (PFBS)	0.52	J	2.1	0.21	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.1	0.31	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorohexanesulfonic acid (PFHxS)	<0.60		2.1	0.60	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorooctanesulfonic acid (PFOS)	1.5	J	2.1	0.57	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/19/22 04:20	11/05/22 02:48	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/19/22 04:20	11/05/22 02:48	1
NEtFOSA	<0.91		2.1	0.91	ng/L		10/19/22 04:20	11/05/22 02:48	1
NMeFOSA	<0.45		2.1	0.45	ng/L		10/19/22 04:20	11/05/22 02:48	1
NMeFOSAA	<1.3		5.2	1.3	ng/L		10/19/22 04:20	11/05/22 02:48	1
NEtFOSAA	<1.4		5.2	1.4	ng/L		10/19/22 04:20	11/05/22 02:48	1
NMeFOSE	<1.5		4.2	1.5	ng/L		10/19/22 04:20	11/05/22 02:48	1
NEtFOSE	<0.89		2.1	0.89	ng/L		10/19/22 04:20	11/05/22 02:48	1
4:2 FTS	<0.25		2.1	0.25	ng/L		10/19/22 04:20	11/05/22 02:48	1
6:2 FTS	8.5		5.2	2.6	ng/L		10/19/22 04:20	11/05/22 02:48	1
8:2 FTS	24		2.1	0.48	ng/L		10/19/22 04:20	11/05/22 02:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.42		2.1	0.42	ng/L		10/19/22 04:20	11/05/22 02:48	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		10/19/22 04:20	11/05/22 02:48	1
9CI-PF3ONS	<0.25		2.1	0.25	ng/L		10/19/22 04:20	11/05/22 02:48	1
11CI-PF3OUdS	<0.34		2.1	0.34	ng/L		10/19/22 04:20	11/05/22 02:48	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(083-117)-202210**

**Lab Sample ID: 320-93224-22**

Date Collected: 10/11/22 14:45

Matrix: Water

Date Received: 10/14/22 14:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C5 PFPeA	98		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C2 PFHxA	94		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C4 PFHpA	96		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C4 PFOA	95		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C5 PFNA	93		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C2 PFDA	96		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C2 PFUnA	96		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C2 PFDoA	99		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C2 PFTeDA	97		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C3 PFBS	95		25 - 150	10/19/22 04:20	11/05/22 02:48	1
18O2 PFHxS	97		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C4 PFOS	102		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C8 FOSA	100		10 - 150	10/19/22 04:20	11/05/22 02:48	1
d3-NMeFOSAA	76		25 - 150	10/19/22 04:20	11/05/22 02:48	1
d5-NEtFOSAA	83		25 - 150	10/19/22 04:20	11/05/22 02:48	1
d-N-MeFOSA-M	88		10 - 150	10/19/22 04:20	11/05/22 02:48	1
d-N-EtFOSA-M	88		10 - 150	10/19/22 04:20	11/05/22 02:48	1
d7-N-MeFOSE-M	92		10 - 150	10/19/22 04:20	11/05/22 02:48	1
d9-N-EtFOSE-M	97		10 - 150	10/19/22 04:20	11/05/22 02:48	1
M2-4:2 FTS	80		25 - 150	10/19/22 04:20	11/05/22 02:48	1
M2-6:2 FTS	85		25 - 150	10/19/22 04:20	11/05/22 02:48	1
M2-8:2 FTS	103		25 - 150	10/19/22 04:20	11/05/22 02:48	1
13C3 HFPO-DA	85		25 - 150	10/19/22 04:20	11/05/22 02:48	1

**Client Sample ID: MP-03-(046-080)-202210**

**Lab Sample ID: 320-93224-23**

Date Collected: 10/11/22 15:15

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	30		6.1	2.9	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluoropentanoic acid (PFPeA)	92		2.4	0.60	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorohexanoic acid (PFHxA)	48		2.4	0.71	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluoroheptanoic acid (PFHpA)	55		2.4	0.31	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorooctanoic acid (PFOA)	12		2.4	1.0	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorononanoic acid (PFNA)	1.1	J	2.4	0.33	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorodecanoic acid (PFDA)	<0.38		2.4	0.38	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluoroundecanoic acid (PFUnA)	<1.3		2.4	1.3	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorododecanoic acid (PFDoA)	<0.67		2.4	0.67	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorotridecanoic acid (PFTTrDA)	<1.6		2.4	1.6	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.89		2.4	0.89	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorobutanesulfonic acid (PFBS)	0.55	J	2.4	0.24	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		2.4	0.37	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorohexanesulfonic acid (PFHxS)	<0.70		2.4	0.70	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.23		2.4	0.23	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorooctanesulfonic acid (PFOS)	<0.66		2.4	0.66	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorononanesulfonic acid (PFNS)	<0.45		2.4	0.45	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.39		2.4	0.39	ng/L		10/19/22 04:20	11/09/22 00:22	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(046-080)-202210**

**Lab Sample ID: 320-93224-23**

Date Collected: 10/11/22 15:15

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<1.2		2.4	1.2	ng/L		10/19/22 04:20	11/09/22 00:22	1
Perfluorooctanesulfonamide (FOSA)	<1.2		2.4	1.2	ng/L		10/19/22 04:20	11/09/22 00:22	1
NEtFOSA	<1.1		2.4	1.1	ng/L		10/19/22 04:20	11/09/22 00:22	1
NMeFOSA	<0.53		2.4	0.53	ng/L		10/19/22 04:20	11/09/22 00:22	1
NMeFOSAA	<1.5		6.1	1.5	ng/L		10/19/22 04:20	11/09/22 00:22	1
NEtFOSAA	<1.6		6.1	1.6	ng/L		10/19/22 04:20	11/09/22 00:22	1
NMeFOSE	<1.7		4.9	1.7	ng/L		10/19/22 04:20	11/09/22 00:22	1
NEtFOSE	<1.0		2.4	1.0	ng/L		10/19/22 04:20	11/09/22 00:22	1
4:2 FTS	<0.29		2.4	0.29	ng/L		10/19/22 04:20	11/09/22 00:22	1
6:2 FTS	<3.1		6.1	3.1	ng/L		10/19/22 04:20	11/09/22 00:22	1
<b>8:2 FTS</b>	<b>0.57</b>	<b>J</b>	2.4	0.56	ng/L		10/19/22 04:20	11/09/22 00:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.49		2.4	0.49	ng/L		10/19/22 04:20	11/09/22 00:22	1
HFPO-DA (GenX)	<1.8		4.9	1.8	ng/L		10/19/22 04:20	11/09/22 00:22	1
9Cl-PF3ONS	<0.29		2.4	0.29	ng/L		10/19/22 04:20	11/09/22 00:22	1
11Cl-PF3OUdS	<0.39		2.4	0.39	ng/L		10/19/22 04:20	11/09/22 00:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C5 PFPeA	96		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C2 PFHxA	95		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C4 PFHpA	100		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C4 PFOA	99		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C5 PFNA	110		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C2 PFDA	108		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C2 PFUnA	105		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C2 PFDoA	91		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C2 PFTeDA	89		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C3 PFBS	96		25 - 150	10/19/22 04:20	11/09/22 00:22	1
18O2 PFHxS	97		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C4 PFOS	103		25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C8 FOSA	114		10 - 150	10/19/22 04:20	11/09/22 00:22	1
d3-NMeFOSAA	88		25 - 150	10/19/22 04:20	11/09/22 00:22	1
d5-NEtFOSAA	105		25 - 150	10/19/22 04:20	11/09/22 00:22	1
d-N-MeFOSA-M	73		10 - 150	10/19/22 04:20	11/09/22 00:22	1
d-N-EtFOSA-M	96		10 - 150	10/19/22 04:20	11/09/22 00:22	1
d7-N-MeFOSE-M	65		10 - 150	10/19/22 04:20	11/09/22 00:22	1
d9-N-EtFOSE-M	100		10 - 150	10/19/22 04:20	11/09/22 00:22	1
M2-4:2 FTS	95		25 - 150	10/19/22 04:20	11/09/22 00:22	1
M2-6:2 FTS	93		25 - 150	10/19/22 04:20	11/09/22 00:22	1
M2-8:2 FTS	215	*5+	25 - 150	10/19/22 04:20	11/09/22 00:22	1
13C3 HFPO-DA	91		25 - 150	10/19/22 04:20	11/09/22 00:22	1

**Client Sample ID: MP-04-(275-291)-202210**

**Lab Sample ID: 320-93224-24**

Date Collected: 10/11/22 10:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		10/19/22 04:20	11/05/22 03:39	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(275-291)-202210**

**Lab Sample ID: 320-93224-24**

**Date Collected: 10/11/22 10:20**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluoroheptanoic acid (PFHpA)	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorooctanoic acid (PFOA)	<0.83		2.0	0.83	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorononanoic acid (PFNA)	<0.26		2.0	0.26	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		2.0	0.71	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		2.0	0.29	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		10/19/22 04:20	11/05/22 03:39	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/19/22 04:20	11/05/22 03:39	1
NEtFOSA	<0.85		2.0	0.85	ng/L		10/19/22 04:20	11/05/22 03:39	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/19/22 04:20	11/05/22 03:39	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		10/19/22 04:20	11/05/22 03:39	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		10/19/22 04:20	11/05/22 03:39	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/19/22 04:20	11/05/22 03:39	1
NEtFOSE	<0.83		2.0	0.83	ng/L		10/19/22 04:20	11/05/22 03:39	1
4:2 FTS	<0.23		2.0	0.23	ng/L		10/19/22 04:20	11/05/22 03:39	1
6:2 FTS	<2.4		4.9	2.4	ng/L		10/19/22 04:20	11/05/22 03:39	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/19/22 04:20	11/05/22 03:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		2.0	0.39	ng/L		10/19/22 04:20	11/05/22 03:39	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/19/22 04:20	11/05/22 03:39	1
9Cl-PF3ONS	<0.23		2.0	0.23	ng/L		10/19/22 04:20	11/05/22 03:39	1
11Cl-PF3OUdS	<0.31		2.0	0.31	ng/L		10/19/22 04:20	11/05/22 03:39	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	90		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C5 PFPeA	90		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C2 PFHxA	89		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C4 PFHpA	88		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C4 PFOA	92		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C5 PFNA	95		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C2 PFDA	92		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C2 PFUnA	100		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C2 PFDoA	102		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C2 PFTeDA	99		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C3 PFBS	94		25 - 150				10/19/22 04:20	11/05/22 03:39	1
18O2 PFHxS	96		25 - 150				10/19/22 04:20	11/05/22 03:39	1
13C4 PFOS	101		25 - 150				10/19/22 04:20	11/05/22 03:39	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(275-291)-202210**

**Lab Sample ID: 320-93224-24**

**Date Collected: 10/11/22 10:20**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 FOSA	95		10 - 150	10/19/22 04:20	11/05/22 03:39	1
d3-NMeFOSAA	80		25 - 150	10/19/22 04:20	11/05/22 03:39	1
d5-NEtFOSAA	93		25 - 150	10/19/22 04:20	11/05/22 03:39	1
d-N-MeFOSA-M	75		10 - 150	10/19/22 04:20	11/05/22 03:39	1
d-N-EtFOSA-M	92		10 - 150	10/19/22 04:20	11/05/22 03:39	1
d7-N-MeFOSE-M	78		10 - 150	10/19/22 04:20	11/05/22 03:39	1
d9-N-EtFOSE-M	97		10 - 150	10/19/22 04:20	11/05/22 03:39	1
M2-4:2 FTS	72		25 - 150	10/19/22 04:20	11/05/22 03:39	1
M2-6:2 FTS	77		25 - 150	10/19/22 04:20	11/05/22 03:39	1
M2-8:2 FTS	141		25 - 150	10/19/22 04:20	11/05/22 03:39	1
13C3 HFPO-DA	82		25 - 150	10/19/22 04:20	11/05/22 03:39	1

**Client Sample ID: MP-04-(245-272)-202210**

**Lab Sample ID: 320-93224-25**

**Date Collected: 10/11/22 10:35**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

**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)	<2.5		5.2	2.5	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluoropentanoic acid (PFPeA)	<0.51		2.1	0.51	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorohexanoic acid (PFHxA)	<0.60		2.1	0.60	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.1	0.26	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorooctanoic acid (PFOA)	<0.88		2.1	0.88	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorononanoic acid (PFNA)	<0.28		2.1	0.28	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorodecanoic acid (PFDA)	<0.32		2.1	0.32	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.1	1.1	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorododecanoic acid (PFDoA)	<0.57		2.1	0.57	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.1	1.3	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorotetradecanoic acid (PFTeA)	<0.75		2.1	0.75	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.1	0.31	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorohexanesulfonic acid (PFHxS)	<0.59		2.1	0.59	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.56		2.1	0.56	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.1	0.38	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.1	0.33	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/19/22 04:30	10/30/22 15:35	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/19/22 04:30	10/30/22 15:35	1
NEtFOSA	<0.90		2.1	0.90	ng/L		10/19/22 04:30	10/30/22 15:35	1
NMeFOSA	<0.44		2.1	0.44	ng/L		10/19/22 04:30	10/30/22 15:35	1
NMeFOSAA	<1.2		5.2	1.2	ng/L		10/19/22 04:30	10/30/22 15:35	1
NEtFOSAA	<1.3		5.2	1.3	ng/L		10/19/22 04:30	10/30/22 15:35	1
NMeFOSE	<1.4		4.1	1.4	ng/L		10/19/22 04:30	10/30/22 15:35	1
NEtFOSE	<0.88		2.1	0.88	ng/L		10/19/22 04:30	10/30/22 15:35	1
4:2 FTS	<0.25		2.1	0.25	ng/L		10/19/22 04:30	10/30/22 15:35	1
6:2 FTS	<2.6		5.2	2.6	ng/L		10/19/22 04:30	10/30/22 15:35	1
8:2 FTS	<0.47		2.1	0.47	ng/L		10/19/22 04:30	10/30/22 15:35	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(245-272)-202210**

**Lab Sample ID: 320-93224-25**

Date Collected: 10/11/22 10:35

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.41		2.1	0.41	ng/L		10/19/22 04:30	10/30/22 15:35	1
HFPO-DA (GenX)	<1.5		4.1	1.5	ng/L		10/19/22 04:30	10/30/22 15:35	1
9CI-PF3ONS	<0.25		2.1	0.25	ng/L		10/19/22 04:30	10/30/22 15:35	1
11CI-PF3OUdS	<0.33		2.1	0.33	ng/L		10/19/22 04:30	10/30/22 15:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C5 PFPeA	91		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C2 PFHxA	98		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C4 PFHpA	85		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C4 PFOA	91		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C5 PFNA	101		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C2 PFDA	94		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C2 PFUnA	105		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C2 PFDoA	69		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C2 PFTeDA	81		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C3 PFBS	74		25 - 150				10/19/22 04:30	10/30/22 15:35	1
18O2 PFHxS	84		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C4 PFOS	91		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C8 FOSA	85		10 - 150				10/19/22 04:30	10/30/22 15:35	1
d3-NMeFOSAA	73		25 - 150				10/19/22 04:30	10/30/22 15:35	1
d5-NEtFOSAA	75		25 - 150				10/19/22 04:30	10/30/22 15:35	1
d-N-MeFOSA-M	69		10 - 150				10/19/22 04:30	10/30/22 15:35	1
d-N-EtFOSA-M	68		10 - 150				10/19/22 04:30	10/30/22 15:35	1
d7-N-MeFOSE-M	61		10 - 150				10/19/22 04:30	10/30/22 15:35	1
d9-N-EtFOSE-M	64		10 - 150				10/19/22 04:30	10/30/22 15:35	1
M2-4:2 FTS	79		25 - 150				10/19/22 04:30	10/30/22 15:35	1
M2-6:2 FTS	93		25 - 150				10/19/22 04:30	10/30/22 15:35	1
M2-8:2 FTS	113		25 - 150				10/19/22 04:30	10/30/22 15:35	1
13C3 HFPO-DA	96		25 - 150				10/19/22 04:30	10/30/22 15:35	1

**Client Sample ID: MP-04-(220-242)-202210**

**Lab Sample ID: 320-93224-26**

Date Collected: 10/11/22 10:50

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.8		5.8	2.8	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluoropentanoic acid (PFPeA)	<0.57		2.3	0.57	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorohexanoic acid (PFHxA)	<0.68		2.3	0.68	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluoroheptanoic acid (PFHpA)	<0.29		2.3	0.29	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorooctanoic acid (PFOA)	<0.99		2.3	0.99	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorononanoic acid (PFNA)	<0.31		2.3	0.31	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorodecanoic acid (PFDA)	<0.36		2.3	0.36	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluoroundecanoic acid (PFUnA)	<1.3		2.3	1.3	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorododecanoic acid (PFDoA)	<0.64		2.3	0.64	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorotridecanoic acid (PFTTrDA)	<1.5		2.3	1.5	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorotetradecanoic acid (PFTeA)	<0.85		2.3	0.85	ng/L		10/19/22 04:30	10/30/22 15:45	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.24</b>	<b>J</b>	2.3	0.23	ng/L		10/19/22 04:30	10/30/22 15:45	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(220-242)-202210**

**Lab Sample ID: 320-93224-26**

**Date Collected: 10/11/22 10:50**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	<0.35		2.3	0.35	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.66		2.3	0.66	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.22		2.3	0.22	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorooctanesulfonic acid (PFOS)	<0.63		2.3	0.63	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorononanesulfonic acid (PFNS)	<0.43		2.3	0.43	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		2.3	0.37	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorododecanesulfonic acid (PFDoS)	<1.1		2.3	1.1	ng/L		10/19/22 04:30	10/30/22 15:45	1
Perfluorooctanesulfonamide (FOSA)	<1.1		2.3	1.1	ng/L		10/19/22 04:30	10/30/22 15:45	1
NEtFOSA	<1.0		2.3	1.0	ng/L		10/19/22 04:30	10/30/22 15:45	1
NMeFOSA	<0.50		2.3	0.50	ng/L		10/19/22 04:30	10/30/22 15:45	1
NMeFOSAA	<1.4		5.8	1.4	ng/L		10/19/22 04:30	10/30/22 15:45	1
NEtFOSAA	<1.5		5.8	1.5	ng/L		10/19/22 04:30	10/30/22 15:45	1
NMeFOSE	<1.6		4.7	1.6	ng/L		10/19/22 04:30	10/30/22 15:45	1
NEtFOSE	<0.99		2.3	0.99	ng/L		10/19/22 04:30	10/30/22 15:45	1
4:2 FTS	<0.28		2.3	0.28	ng/L		10/19/22 04:30	10/30/22 15:45	1
6:2 FTS	<2.9		5.8	2.9	ng/L		10/19/22 04:30	10/30/22 15:45	1
8:2 FTS	<0.54		2.3	0.54	ng/L		10/19/22 04:30	10/30/22 15:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.47		2.3	0.47	ng/L		10/19/22 04:30	10/30/22 15:45	1
HFPO-DA (GenX)	<1.7		4.7	1.7	ng/L		10/19/22 04:30	10/30/22 15:45	1
9CI-PF3ONS	<0.28		2.3	0.28	ng/L		10/19/22 04:30	10/30/22 15:45	1
11CI-PF3OUdS	<0.37		2.3	0.37	ng/L		10/19/22 04:30	10/30/22 15:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C5 PFPeA	87		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C2 PFHxA	78		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C4 PFHpA	85		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C4 PFOA	87		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C5 PFNA	97		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C2 PFDA	91		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C2 PFUnA	78		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C2 PFDoA	70		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C2 PFTeDA	75		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C3 PFBS	76		25 - 150	10/19/22 04:30	10/30/22 15:45	1
18O2 PFHxS	85		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C4 PFOS	88		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C8 FOSA	90		10 - 150	10/19/22 04:30	10/30/22 15:45	1
d3-NMeFOSAA	70		25 - 150	10/19/22 04:30	10/30/22 15:45	1
d5-NEtFOSAA	78		25 - 150	10/19/22 04:30	10/30/22 15:45	1
d-N-MeFOSA-M	71		10 - 150	10/19/22 04:30	10/30/22 15:45	1
d-N-EtFOSA-M	65		10 - 150	10/19/22 04:30	10/30/22 15:45	1
d7-N-MeFOSE-M	62		10 - 150	10/19/22 04:30	10/30/22 15:45	1
d9-N-EtFOSE-M	66		10 - 150	10/19/22 04:30	10/30/22 15:45	1
M2-4:2 FTS	77		25 - 150	10/19/22 04:30	10/30/22 15:45	1
M2-6:2 FTS	90		25 - 150	10/19/22 04:30	10/30/22 15:45	1
M2-8:2 FTS	121		25 - 150	10/19/22 04:30	10/30/22 15:45	1
13C3 HFPO-DA	78		25 - 150	10/19/22 04:30	10/30/22 15:45	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(195-217)-202210**

**Lab Sample ID: 320-93224-27**

**Date Collected: 10/11/22 11:05**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/19/22 04:30	10/30/22 15:56	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>5.4</b>		2.0	0.49	ng/L		10/19/22 04:30	10/30/22 15:56	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>3.8</b>		2.0	0.57	ng/L		10/19/22 04:30	10/30/22 15:56	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>1.0 J</b>		2.0	0.25	ng/L		10/19/22 04:30	10/30/22 15:56	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.0</b>		2.0	0.84	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		10/19/22 04:30	10/30/22 15:56	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		10/19/22 04:30	10/30/22 15:56	1
NEtFOSA	<0.86		2.0	0.86	ng/L		10/19/22 04:30	10/30/22 15:56	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 04:30	10/30/22 15:56	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 04:30	10/30/22 15:56	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 04:30	10/30/22 15:56	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 04:30	10/30/22 15:56	1
NEtFOSE	<0.84		2.0	0.84	ng/L		10/19/22 04:30	10/30/22 15:56	1
<b>4:2 FTS</b>	<b>0.36 J</b>		2.0	0.24	ng/L		10/19/22 04:30	10/30/22 15:56	1
<b>6:2 FTS</b>	<b>44</b>		5.0	2.5	ng/L		10/19/22 04:30	10/30/22 15:56	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/19/22 04:30	10/30/22 15:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 04:30	10/30/22 15:56	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 04:30	10/30/22 15:56	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 04:30	10/30/22 15:56	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 04:30	10/30/22 15:56	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	109		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C5 PFPeA	106		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C2 PFHxA	91		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C4 PFHpA	88		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C4 PFOA	95		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C5 PFNA	93		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C2 PFDA	101		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C2 PFUnA	93		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C2 PFDoA	78		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C2 PFTeDA	83		25 - 150				10/19/22 04:30	10/30/22 15:56	1
13C3 PFBS	82		25 - 150				10/19/22 04:30	10/30/22 15:56	1
18O2 PFHxS	96		25 - 150				10/19/22 04:30	10/30/22 15:56	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(195-217)-202210**

**Lab Sample ID: 320-93224-27**

Date Collected: 10/11/22 11:05

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	98		25 - 150	10/19/22 04:30	10/30/22 15:56	1
13C8 FOSA	95		10 - 150	10/19/22 04:30	10/30/22 15:56	1
d3-NMeFOSAA	81		25 - 150	10/19/22 04:30	10/30/22 15:56	1
d5-NEtFOSAA	106		25 - 150	10/19/22 04:30	10/30/22 15:56	1
d-N-MeFOSA-M	84		10 - 150	10/19/22 04:30	10/30/22 15:56	1
d-N-EtFOSA-M	78		10 - 150	10/19/22 04:30	10/30/22 15:56	1
d7-N-MeFOSE-M	66		10 - 150	10/19/22 04:30	10/30/22 15:56	1
d9-N-EtFOSE-M	70		10 - 150	10/19/22 04:30	10/30/22 15:56	1
M2-4:2 FTS	84		25 - 150	10/19/22 04:30	10/30/22 15:56	1
M2-6:2 FTS	95		25 - 150	10/19/22 04:30	10/30/22 15:56	1
M2-8:2 FTS	97		25 - 150	10/19/22 04:30	10/30/22 15:56	1
13C3 HFPO-DA	82		25 - 150	10/19/22 04:30	10/30/22 15:56	1

**Client Sample ID: MP-04-(155-192)-202210**

**Lab Sample ID: 320-93224-28**

Date Collected: 10/11/22 11:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	33		5.4	2.6	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluoropentanoic acid (PFPeA)	150		2.2	0.53	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorohexanoic acid (PFHxA)	100		2.2	0.63	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluoroheptanoic acid (PFHpA)	31		2.2	0.27	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorooctanoic acid (PFOA)	34		2.2	0.92	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorononanoic acid (PFNA)	1.8	J	2.2	0.29	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorodecanoic acid (PFDA)	<0.33		2.2	0.33	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.2	1.2	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorododecanoic acid (PFDoA)	<0.59		2.2	0.59	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.2	1.4	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorotetradecanoic acid (PFTeA)	<0.79		2.2	0.79	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorobutanesulfonic acid (PFBS)	<0.22		2.2	0.22	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluoropentanesulfonic acid (PFPeS)	<0.32		2.2	0.32	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.69	J	2.2	0.62	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.21		2.2	0.21	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorooctanesulfonic acid (PFOS)	<0.58		2.2	0.58	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorononanesulfonic acid (PFNS)	<0.40		2.2	0.40	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorodecanesulfonic acid (PFDS)	<0.35		2.2	0.35	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.2	1.0	ng/L		10/19/22 04:30	10/30/22 16:06	1
Perfluorooctanesulfonamide (FOSA)	<1.1		2.2	1.1	ng/L		10/19/22 04:30	10/30/22 16:06	1
NEtFOSA	<0.94		2.2	0.94	ng/L		10/19/22 04:30	10/30/22 16:06	1
NMeFOSA	<0.46		2.2	0.46	ng/L		10/19/22 04:30	10/30/22 16:06	1
NMeFOSAA	<1.3		5.4	1.3	ng/L		10/19/22 04:30	10/30/22 16:06	1
NEtFOSAA	<1.4		5.4	1.4	ng/L		10/19/22 04:30	10/30/22 16:06	1
NMeFOSE	<1.5		4.3	1.5	ng/L		10/19/22 04:30	10/30/22 16:06	1
NEtFOSE	<0.92		2.2	0.92	ng/L		10/19/22 04:30	10/30/22 16:06	1
4:2 FTS	6.0		2.2	0.26	ng/L		10/19/22 04:30	10/30/22 16:06	1
8:2 FTS	27		2.2	0.50	ng/L		10/19/22 04:30	10/30/22 16:06	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(155-192)-202210**

**Lab Sample ID: 320-93224-28**

Date Collected: 10/11/22 11:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.43		2.2	0.43	ng/L		10/19/22 04:30	10/30/22 16:06	1
HFPO-DA (GenX)	<1.6		4.3	1.6	ng/L		10/19/22 04:30	10/30/22 16:06	1
9CI-PF3ONS	<0.26		2.2	0.26	ng/L		10/19/22 04:30	10/30/22 16:06	1
11CI-PF3OUdS	<0.35		2.2	0.35	ng/L		10/19/22 04:30	10/30/22 16:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C5 PFPeA	88		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C2 PFHxA	79		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C4 PFHpA	83		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C4 PFOA	87		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C5 PFNA	94		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C2 PFDA	93		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C2 PFUnA	80		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C2 PFDoA	74		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C2 PFTeDA	85		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C3 PFBS	86		25 - 150				10/19/22 04:30	10/30/22 16:06	1
18O2 PFHxS	84		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C4 PFOS	85		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C8 FOSA	87		10 - 150				10/19/22 04:30	10/30/22 16:06	1
d3-NMeFOSAA	73		25 - 150				10/19/22 04:30	10/30/22 16:06	1
d5-NEtFOSAA	83		25 - 150				10/19/22 04:30	10/30/22 16:06	1
d-N-MeFOSA-M	70		10 - 150				10/19/22 04:30	10/30/22 16:06	1
d-N-EtFOSA-M	67		10 - 150				10/19/22 04:30	10/30/22 16:06	1
d7-N-MeFOSE-M	67		10 - 150				10/19/22 04:30	10/30/22 16:06	1
d9-N-EtFOSE-M	69		10 - 150				10/19/22 04:30	10/30/22 16:06	1
M2-4:2 FTS	82		25 - 150				10/19/22 04:30	10/30/22 16:06	1
M2-8:2 FTS	111		25 - 150				10/19/22 04:30	10/30/22 16:06	1
13C3 HFPO-DA	76		25 - 150				10/19/22 04:30	10/30/22 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	690	H	27	13	ng/L		10/19/22 04:30	11/22/22 03:56	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	101		25 - 150				10/19/22 04:30	11/22/22 03:56	5

**Client Sample ID: MP-04-(115-152)-202210**

**Lab Sample ID: 320-93224-29**

Date Collected: 10/11/22 11:35

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	220		5.3	2.5	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluoroheptanoic acid (PFHpA)	210		2.1	0.26	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluorooctanoic acid (PFOA)	320		2.1	0.90	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluorononanoic acid (PFNA)	16		2.1	0.28	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluorodecanoic acid (PFDA)	1.1	J	2.1	0.33	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluorododecanoic acid (PFDoA)	<0.58		2.1	0.58	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluorotridecanoic acid (PFTTrDA)	<1.4		2.1	1.4	ng/L		10/19/22 04:30	10/30/22 16:16	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(115-152)-202210**

**Lab Sample ID: 320-93224-29**

Date Collected: 10/11/22 11:35

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	<0.77		2.1	0.77	ng/L		10/19/22 04:30	10/30/22 16:16	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>1.2</b>	<b>J</b>	2.1	0.21	ng/L		10/19/22 04:30	10/30/22 16:16	1
<b>Perfluoropentanesulfonic acid (PFPeS)</b>	<b>1.1</b>	<b>J</b>	2.1	0.32	ng/L		10/19/22 04:30	10/30/22 16:16	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>4.8</b>		2.1	0.60	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/19/22 04:30	10/30/22 16:16	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>5.4</b>		2.1	0.57	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/19/22 04:30	10/30/22 16:16	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/19/22 04:30	10/30/22 16:16	1
NEtFOSA	<0.92		2.1	0.92	ng/L		10/19/22 04:30	10/30/22 16:16	1
NMeFOSA	<0.45		2.1	0.45	ng/L		10/19/22 04:30	10/30/22 16:16	1
NMeFOSAA	<1.3		5.3	1.3	ng/L		10/19/22 04:30	10/30/22 16:16	1
NEtFOSAA	<1.4		5.3	1.4	ng/L		10/19/22 04:30	10/30/22 16:16	1
NMeFOSE	<1.5		4.2	1.5	ng/L		10/19/22 04:30	10/30/22 16:16	1
NEtFOSE	<0.90		2.1	0.90	ng/L		10/19/22 04:30	10/30/22 16:16	1
<b>4:2 FTS</b>	<b>67</b>		2.1	0.25	ng/L		10/19/22 04:30	10/30/22 16:16	1
<b>8:2 FTS</b>	<b>250</b>		2.1	0.48	ng/L		10/19/22 04:30	10/30/22 16:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.42		2.1	0.42	ng/L		10/19/22 04:30	10/30/22 16:16	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		10/19/22 04:30	10/30/22 16:16	1
9CI-PF3ONS	<0.25		2.1	0.25	ng/L		10/19/22 04:30	10/30/22 16:16	1
11CI-PF3OUdS	<0.34		2.1	0.34	ng/L		10/19/22 04:30	10/30/22 16:16	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	124		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C4 PFHpA	107		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C4 PFOA	93		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C5 PFNA	123		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C2 PFDA	117		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C2 PFUnA	101		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C2 PFDoA	99		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C2 PFTeDA	108		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C3 PFBS	96		25 - 150				10/19/22 04:30	10/30/22 16:16	1
18O2 PFHxS	106		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C4 PFOS	118		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C8 FOSA	111		10 - 150				10/19/22 04:30	10/30/22 16:16	1
d3-NMeFOSAA	96		25 - 150				10/19/22 04:30	10/30/22 16:16	1
d5-NEtFOSAA	101		25 - 150				10/19/22 04:30	10/30/22 16:16	1
d-N-MeFOSA-M	98		10 - 150				10/19/22 04:30	10/30/22 16:16	1
d-N-EtFOSA-M	90		10 - 150				10/19/22 04:30	10/30/22 16:16	1
d7-N-MeFOSE-M	82		10 - 150				10/19/22 04:30	10/30/22 16:16	1
d9-N-EtFOSE-M	90		10 - 150				10/19/22 04:30	10/30/22 16:16	1
M2-4:2 FTS	91		25 - 150				10/19/22 04:30	10/30/22 16:16	1
M2-8:2 FTS	129		25 - 150				10/19/22 04:30	10/30/22 16:16	1
13C3 HFPO-DA	96		25 - 150				10/19/22 04:30	10/30/22 16:16	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(115-152)-202210**

**Lab Sample ID: 320-93224-29**

Date Collected: 10/11/22 11:35

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1100		110	26	ng/L		10/19/22 04:30	11/05/22 20:33	50
Perfluorohexanoic acid (PFHxA)	770		110	31	ng/L		10/19/22 04:30	11/05/22 20:33	50
6:2 FTS	4000		260	130	ng/L		10/19/22 04:30	11/05/22 20:33	50
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	99		25 - 150				10/19/22 04:30	11/05/22 20:33	50
13C2 PFHxA	110		25 - 150				10/19/22 04:30	11/05/22 20:33	50
M2-6:2 FTS	116		25 - 150				10/19/22 04:30	11/05/22 20:33	50

**Client Sample ID: MP-04-(080-112)-202210**

**Lab Sample ID: 320-93224-30**

Date Collected: 10/11/22 11:50

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	140		5.6	2.7	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluoroheptanoic acid (PFHpA)	87		2.2	0.28	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorooctanoic acid (PFOA)	130		2.2	0.95	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorononanoic acid (PFNA)	3.9		2.2	0.30	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorodecanoic acid (PFDA)	<0.35		2.2	0.35	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.2	1.2	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorododecanoic acid (PFDoA)	<0.61		2.2	0.61	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorotridecanoic acid (PFTrDA)	<1.5		2.2	1.5	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.81		2.2	0.81	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorobutanesulfonic acid (PFBS)	0.72	J	2.2	0.22	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluoropentanesulfonic acid (PFPeS)	0.38	J	2.2	0.33	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorohexanesulfonic acid (PFHxS)	1.9	J	2.2	0.64	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.21		2.2	0.21	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.60		2.2	0.60	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorononanesulfonic acid (PFNS)	<0.41		2.2	0.41	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.36		2.2	0.36	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorododecanesulfonic acid (PFDoS)	<1.1		2.2	1.1	ng/L		10/19/22 04:30	10/30/22 16:26	1
Perfluorooctanesulfonamide (FOSA)	<1.1		2.2	1.1	ng/L		10/19/22 04:30	10/30/22 16:26	1
NEtFOSA	<0.97		2.2	0.97	ng/L		10/19/22 04:30	10/30/22 16:26	1
NMeFOSA	<0.48		2.2	0.48	ng/L		10/19/22 04:30	10/30/22 16:26	1
NMeFOSAA	<1.3		5.6	1.3	ng/L		10/19/22 04:30	10/30/22 16:26	1
NEtFOSAA	<1.5		5.6	1.5	ng/L		10/19/22 04:30	10/30/22 16:26	1
NMeFOSE	<1.6		4.5	1.6	ng/L		10/19/22 04:30	10/30/22 16:26	1
NEtFOSE	<0.95		2.2	0.95	ng/L		10/19/22 04:30	10/30/22 16:26	1
4:2 FTS	28		2.2	0.27	ng/L		10/19/22 04:30	10/30/22 16:26	1
8:2 FTS	12		2.2	0.51	ng/L		10/19/22 04:30	10/30/22 16:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.45		2.2	0.45	ng/L		10/19/22 04:30	10/30/22 16:26	1
HFPO-DA (GenX)	<1.7		4.5	1.7	ng/L		10/19/22 04:30	10/30/22 16:26	1
9Cl-PF3ONS	<0.27		2.2	0.27	ng/L		10/19/22 04:30	10/30/22 16:26	1
11Cl-PF3OUdS	<0.36		2.2	0.36	ng/L		10/19/22 04:30	10/30/22 16:26	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(080-112)-202210**

**Lab Sample ID: 320-93224-30**

Date Collected: 10/11/22 11:50

Matrix: Water

Date Received: 10/14/22 14:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	119		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C4 PFHpA	118		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C4 PFOA	100		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C5 PFNA	115		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C2 PFDA	113		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C2 PFUnA	91		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C2 PFDoA	93		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C2 PFTeDA	97		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C3 PFBS	87		25 - 150	10/19/22 04:30	10/30/22 16:26	1
18O2 PFHxS	100		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C4 PFOS	104		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C8 FOSA	103		10 - 150	10/19/22 04:30	10/30/22 16:26	1
d3-NMeFOSAA	94		25 - 150	10/19/22 04:30	10/30/22 16:26	1
d5-NEtFOSAA	94		25 - 150	10/19/22 04:30	10/30/22 16:26	1
d-N-MeFOSA-M	84		10 - 150	10/19/22 04:30	10/30/22 16:26	1
d-N-EtFOSA-M	90		10 - 150	10/19/22 04:30	10/30/22 16:26	1
d7-N-MeFOSE-M	78		10 - 150	10/19/22 04:30	10/30/22 16:26	1
d9-N-EtFOSE-M	103		10 - 150	10/19/22 04:30	10/30/22 16:26	1
M2-4:2 FTS	85		25 - 150	10/19/22 04:30	10/30/22 16:26	1
M2-8:2 FTS	143		25 - 150	10/19/22 04:30	10/30/22 16:26	1
13C3 HFPO-DA	107		25 - 150	10/19/22 04:30	10/30/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	910		22	5.5	ng/L		10/19/22 04:30	11/05/22 20:23	10
Perfluorohexanoic acid (PFHxA)	490		22	6.5	ng/L		10/19/22 04:30	11/05/22 20:23	10
6:2 FTS	1400		56	28	ng/L		10/19/22 04:30	11/05/22 20:23	10

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	95		25 - 150	10/19/22 04:30	11/05/22 20:23	10
13C2 PFHxA	101		25 - 150	10/19/22 04:30	11/05/22 20:23	10
M2-6:2 FTS	73		25 - 150	10/19/22 04:30	11/05/22 20:23	10

**Client Sample ID: MP-04-(048-077)-202210**

**Lab Sample ID: 320-93224-31**

Date Collected: 10/11/22 12:05

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	13		6.4	3.1	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluoropentanoic acid (PFPeA)	59		2.6	0.63	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorohexanoic acid (PFHxA)	32		2.6	0.74	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluoroheptanoic acid (PFHpA)	6.6		2.6	0.32	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorooctanoic acid (PFOA)	4.8		2.6	1.1	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorononanoic acid (PFNA)	<0.35		2.6	0.35	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorodecanoic acid (PFDA)	<0.40		2.6	0.40	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluoroundecanoic acid (PFUnA)	<1.4		2.6	1.4	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorododecanoic acid (PFDoA)	<0.70		2.6	0.70	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorotridecanoic acid (PFTTrDA)	<1.7		2.6	1.7	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorotetradecanoic acid (PFTeA)	<0.93		2.6	0.93	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorobutanesulfonic acid (PFBS)	0.79	J	2.6	0.26	ng/L		10/19/22 04:30	10/30/22 16:36	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(048-077)-202210**

**Lab Sample ID: 320-93224-31**

**Date Collected: 10/11/22 12:05**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.6	0.38	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorohexanesulfonic acid (PFHxS)	<0.73		2.6	0.73	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.24		2.6	0.24	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorooctanesulfonic acid (PFOS)	<0.69		2.6	0.69	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorononanesulfonic acid (PFNS)	<0.47		2.6	0.47	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorodecanesulfonic acid (PFDS)	<0.41		2.6	0.41	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorododecanesulfonic acid (PFDoS)	<1.2		2.6	1.2	ng/L		10/19/22 04:30	10/30/22 16:36	1
Perfluorooctanesulfonamide (FOSA)	<1.3		2.6	1.3	ng/L		10/19/22 04:30	10/30/22 16:36	1
NEtFOSA	<1.1		2.6	1.1	ng/L		10/19/22 04:30	10/30/22 16:36	1
NMeFOSA	<0.55		2.6	0.55	ng/L		10/19/22 04:30	10/30/22 16:36	1
NMeFOSAA	<1.5		6.4	1.5	ng/L		10/19/22 04:30	10/30/22 16:36	1
NEtFOSAA	<1.7		6.4	1.7	ng/L		10/19/22 04:30	10/30/22 16:36	1
NMeFOSE	<1.8		5.1	1.8	ng/L		10/19/22 04:30	10/30/22 16:36	1
NEtFOSE	<1.1		2.6	1.1	ng/L		10/19/22 04:30	10/30/22 16:36	1
<b>4:2 FTS</b>	<b>0.37</b>	<b>J</b>	2.6	0.31	ng/L		10/19/22 04:30	10/30/22 16:36	1
<b>6:2 FTS</b>	<b>19</b>		6.4	3.2	ng/L		10/19/22 04:30	10/30/22 16:36	1
<b>8:2 FTS</b>	<b>0.71</b>	<b>J</b>	2.6	0.59	ng/L		10/19/22 04:30	10/30/22 16:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.51		2.6	0.51	ng/L		10/19/22 04:30	10/30/22 16:36	1
HFPO-DA (GenX)	<1.9		5.1	1.9	ng/L		10/19/22 04:30	10/30/22 16:36	1
9Cl-PF3ONS	<0.31		2.6	0.31	ng/L		10/19/22 04:30	10/30/22 16:36	1
11Cl-PF3OUdS	<0.41		2.6	0.41	ng/L		10/19/22 04:30	10/30/22 16:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	113		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C5 PFPeA	100		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C2 PFHxA	94		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C4 PFHpA	92		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C4 PFOA	100		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C5 PFNA	123		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C2 PFDA	112		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C2 PFUnA	88		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C2 PFDoA	87		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C2 PFTeDA	94		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C3 PFBS	82		25 - 150	10/19/22 04:30	10/30/22 16:36	1
18O2 PFHxS	96		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C4 PFOS	96		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C8 FOSA	96		10 - 150	10/19/22 04:30	10/30/22 16:36	1
d3-NMeFOSAA	88		25 - 150	10/19/22 04:30	10/30/22 16:36	1
d5-NEtFOSAA	92		25 - 150	10/19/22 04:30	10/30/22 16:36	1
d-N-MeFOSA-M	82		10 - 150	10/19/22 04:30	10/30/22 16:36	1
d-N-EtFOSA-M	78		10 - 150	10/19/22 04:30	10/30/22 16:36	1
d7-N-MeFOSE-M	75		10 - 150	10/19/22 04:30	10/30/22 16:36	1
d9-N-EtFOSE-M	84		10 - 150	10/19/22 04:30	10/30/22 16:36	1
M2-4:2 FTS	91		25 - 150	10/19/22 04:30	10/30/22 16:36	1
M2-6:2 FTS	100		25 - 150	10/19/22 04:30	10/30/22 16:36	1
M2-8:2 FTS	119		25 - 150	10/19/22 04:30	10/30/22 16:36	1
13C3 HFPO-DA	101		25 - 150	10/19/22 04:30	10/30/22 16:36	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-05-(SWL-065)-202210**

**Lab Sample ID: 320-93224-32**

**Date Collected: 10/11/22 09:10**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	24		5.9	2.8	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluoropentanoic acid (PFPeA)	63		2.4	0.58	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorohexanoic acid (PFHxA)	31		2.4	0.68	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluoroheptanoic acid (PFHpA)	24		2.4	0.29	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorooctanoic acid (PFOA)	12		2.4	1.0	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorononanoic acid (PFNA)	<0.32		2.4	0.32	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorodecanoic acid (PFDA)	<0.37		2.4	0.37	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluoroundecanoic acid (PFUnA)	<1.3		2.4	1.3	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorododecanoic acid (PFDoA)	<0.65		2.4	0.65	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorotridecanoic acid (PFTrDA)	<1.5		2.4	1.5	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorotetradecanoic acid (PFTeA)	<0.86		2.4	0.86	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorobutanesulfonic acid (PFBS)	0.91	J	2.4	0.24	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluoropentanesulfonic acid (PFPeS)	<0.35		2.4	0.35	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorohexanesulfonic acid (PFHxS)	<0.67		2.4	0.67	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.22		2.4	0.22	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorooctanesulfonic acid (PFOS)	<0.64		2.4	0.64	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorononanesulfonic acid (PFNS)	<0.44		2.4	0.44	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorodecanesulfonic acid (PFDS)	<0.38		2.4	0.38	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorododecanesulfonic acid (PFDoS)	<1.1		2.4	1.1	ng/L		10/19/22 04:30	10/30/22 17:17	1
Perfluorooctanesulfonamide (FOSA)	<1.2		2.4	1.2	ng/L		10/19/22 04:30	10/30/22 17:17	1
NEtFOSA	<1.0		2.4	1.0	ng/L		10/19/22 04:30	10/30/22 17:17	1
NMeFOSA	<0.51		2.4	0.51	ng/L		10/19/22 04:30	10/30/22 17:17	1
NMeFOSAA	<1.4		5.9	1.4	ng/L		10/19/22 04:30	10/30/22 17:17	1
NEtFOSAA	<1.5		5.9	1.5	ng/L		10/19/22 04:30	10/30/22 17:17	1
NMeFOSE	<1.7		4.7	1.7	ng/L		10/19/22 04:30	10/30/22 17:17	1
NEtFOSE	<1.0		2.4	1.0	ng/L		10/19/22 04:30	10/30/22 17:17	1
4:2 FTS	<0.28		2.4	0.28	ng/L		10/19/22 04:30	10/30/22 17:17	1
6:2 FTS	<2.9		5.9	2.9	ng/L		10/19/22 04:30	10/30/22 17:17	1
8:2 FTS	<0.54		2.4	0.54	ng/L		10/19/22 04:30	10/30/22 17:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.47		2.4	0.47	ng/L		10/19/22 04:30	10/30/22 17:17	1
HFPO-DA (GenX)	<1.8		4.7	1.8	ng/L		10/19/22 04:30	10/30/22 17:17	1
11CI-PF3OUdS	<0.38		2.4	0.38	ng/L		10/19/22 04:30	10/30/22 17:17	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	107		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C5 PFPeA	99		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C2 PFHxA	100		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C4 PFHpA	93		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C4 PFOA	97		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C5 PFNA	113		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C2 PFDA	104		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C2 PFUnA	86		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C2 PFDoA	62		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C2 PFTeDA	64		25 - 150				10/19/22 04:30	10/30/22 17:17	1
13C3 PFBS	81		25 - 150				10/19/22 04:30	10/30/22 17:17	1
18O2 PFHxS	92		25 - 150				10/19/22 04:30	10/30/22 17:17	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-05-(SWL-065)-202210**

**Lab Sample ID: 320-93224-32**

Date Collected: 10/11/22 09:10

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	99		25 - 150	10/19/22 04:30	10/30/22 17:17	1
13C8 FOSA	93		10 - 150	10/19/22 04:30	10/30/22 17:17	1
d3-NMeFOSAA	47		25 - 150	10/19/22 04:30	10/30/22 17:17	1
d5-NEtFOSAA	68		25 - 150	10/19/22 04:30	10/30/22 17:17	1
d-N-MeFOSA-M	40		10 - 150	10/19/22 04:30	10/30/22 17:17	1
d-N-EtFOSA-M	49		10 - 150	10/19/22 04:30	10/30/22 17:17	1
d7-N-MeFOSE-M	41		10 - 150	10/19/22 04:30	10/30/22 17:17	1
d9-N-EtFOSE-M	73		10 - 150	10/19/22 04:30	10/30/22 17:17	1
M2-4:2 FTS	86		25 - 150	10/19/22 04:30	10/30/22 17:17	1
M2-6:2 FTS	106		25 - 150	10/19/22 04:30	10/30/22 17:17	1
M2-8:2 FTS	150		25 - 150	10/19/22 04:30	10/30/22 17:17	1
13C3 HFPO-DA	83		25 - 150	10/19/22 04:30	10/30/22 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<0.28		2.4	0.28	ng/L		10/19/22 04:30	11/05/22 19:52	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFOS	94		25 - 150	10/19/22 04:30	11/05/22 19:52	1			

**Client Sample ID: DUP-01-202210**

**Lab Sample ID: 320-93224-33**

Date Collected: 10/11/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	23		5.5	2.6	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluoropentanoic acid (PFPeA)	66		2.2	0.54	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorohexanoic acid (PFHxA)	34		2.2	0.64	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluoroheptanoic acid (PFHpA)	24		2.2	0.27	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorooctanoic acid (PFOA)	13		2.2	0.93	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorononanoic acid (PFNA)	<0.30		2.2	0.30	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorodecanoic acid (PFDA)	<0.34		2.2	0.34	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.2	1.2	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorododecanoic acid (PFDoA)	<0.60		2.2	0.60	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.2	1.4	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.80		2.2	0.80	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorobutanesulfonic acid (PFBS)	0.96 J		2.2	0.22	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.33		2.2	0.33	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorohexanesulfonic acid (PFHxS)	<0.63		2.2	0.63	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.21		2.2	0.21	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorooctanesulfonic acid (PFOS)	<0.59		2.2	0.59	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorononanesulfonic acid (PFNS)	<0.41		2.2	0.41	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.35		2.2	0.35	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorododecanesulfonic acid (PFDoS)	<1.1		2.2	1.1	ng/L		10/19/22 04:30	10/30/22 17:27	1
Perfluorooctanesulfonamide (FOSA)	<1.1		2.2	1.1	ng/L		10/19/22 04:30	10/30/22 17:27	1
NEtFOSA	<0.96		2.2	0.96	ng/L		10/19/22 04:30	10/30/22 17:27	1
NMeFOSA	<0.47		2.2	0.47	ng/L		10/19/22 04:30	10/30/22 17:27	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: DUP-01-202210**

**Lab Sample ID: 320-93224-33**

Date Collected: 10/11/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.3		5.5	1.3	ng/L		10/19/22 04:30	10/30/22 17:27	1
NEtFOSAA	<1.4		5.5	1.4	ng/L		10/19/22 04:30	10/30/22 17:27	1
NMeFOSE	<1.5		4.4	1.5	ng/L		10/19/22 04:30	10/30/22 17:27	1
NEtFOSE	<0.93		2.2	0.93	ng/L		10/19/22 04:30	10/30/22 17:27	1
4:2 FTS	<0.26		2.2	0.26	ng/L		10/19/22 04:30	10/30/22 17:27	1
6:2 FTS	<2.7		5.5	2.7	ng/L		10/19/22 04:30	10/30/22 17:27	1
8:2 FTS	<0.51		2.2	0.51	ng/L		10/19/22 04:30	10/30/22 17:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.44		2.2	0.44	ng/L		10/19/22 04:30	10/30/22 17:27	1
HFPO-DA (GenX)	<1.6		4.4	1.6	ng/L		10/19/22 04:30	10/30/22 17:27	1
11Cl-PF3OUdS	<0.35		2.2	0.35	ng/L		10/19/22 04:30	10/30/22 17:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C5 PFPeA	92		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C2 PFHxA	82		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C4 PFHpA	87		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C4 PFOA	89		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C5 PFNA	100		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C2 PFDA	106		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C2 PFUnA	81		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C2 PFDoA	61		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C2 PFTeDA	64		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C3 PFBS	74		25 - 150	10/19/22 04:30	10/30/22 17:27	1
18O2 PFHxS	84		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C4 PFOS	94		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C8 FOSA	92		10 - 150	10/19/22 04:30	10/30/22 17:27	1
d3-NMeFOSAA	45		25 - 150	10/19/22 04:30	10/30/22 17:27	1
d5-NEtFOSAA	63		25 - 150	10/19/22 04:30	10/30/22 17:27	1
d-N-MeFOSA-M	37		10 - 150	10/19/22 04:30	10/30/22 17:27	1
d-N-EtFOSA-M	46		10 - 150	10/19/22 04:30	10/30/22 17:27	1
d7-N-MeFOSE-M	39		10 - 150	10/19/22 04:30	10/30/22 17:27	1
d9-N-EtFOSE-M	62		10 - 150	10/19/22 04:30	10/30/22 17:27	1
M2-4:2 FTS	80		25 - 150	10/19/22 04:30	10/30/22 17:27	1
M2-6:2 FTS	92		25 - 150	10/19/22 04:30	10/30/22 17:27	1
M2-8:2 FTS	144		25 - 150	10/19/22 04:30	10/30/22 17:27	1
13C3 HFPO-DA	82		25 - 150	10/19/22 04:30	10/30/22 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<0.26		2.2	0.26	ng/L		10/19/22 04:30	11/05/22 20:03	1

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	92		25 - 150	10/19/22 04:30	11/05/22 20:03	1

**Client Sample ID: DUP-02-202210**

**Lab Sample ID: 320-93224-34**

Date Collected: 10/11/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	220		5.1	2.4	ng/L		10/19/22 04:30	10/30/22 17:37	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: DUP-02-202210**

**Lab Sample ID: 320-93224-34**

Date Collected: 10/11/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	200		2.0	0.25	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorooctanoic acid (PFOA)	350		2.0	0.87	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorononanoic acid (PFNA)	20		2.0	0.28	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorodecanoic acid (PFDA)	1.5	J	2.0	0.32	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.0	0.56	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.74		2.0	0.74	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	2.0	0.20	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluoropentanesulfonic acid (PFPeS)	0.90	J	2.0	0.31	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorohexanesulfonic acid (PFHxS)	5.3		2.0	0.58	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorooctanesulfonic acid (PFOS)	7.4		2.0	0.55	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.0	0.38	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.0	0.33	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.99		2.0	0.99	ng/L		10/19/22 04:30	10/30/22 17:37	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.0	1.0	ng/L		10/19/22 04:30	10/30/22 17:37	1
NEtFOSA	<0.89		2.0	0.89	ng/L		10/19/22 04:30	10/30/22 17:37	1
NMeFOSA	<0.44		2.0	0.44	ng/L		10/19/22 04:30	10/30/22 17:37	1
NMeFOSAA	<1.2		5.1	1.2	ng/L		10/19/22 04:30	10/30/22 17:37	1
NEtFOSAA	<1.3		5.1	1.3	ng/L		10/19/22 04:30	10/30/22 17:37	1
NMeFOSE	<1.4		4.1	1.4	ng/L		10/19/22 04:30	10/30/22 17:37	1
NEtFOSE	<0.87		2.0	0.87	ng/L		10/19/22 04:30	10/30/22 17:37	1
4:2 FTS	70		2.0	0.24	ng/L		10/19/22 04:30	10/30/22 17:37	1
8:2 FTS	360		2.0	0.47	ng/L		10/19/22 04:30	10/30/22 17:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.41		2.0	0.41	ng/L		10/19/22 04:30	10/30/22 17:37	1
HFPO-DA (GenX)	<1.5		4.1	1.5	ng/L		10/19/22 04:30	10/30/22 17:37	1
11CI-PF3OUdS	<0.33		2.0	0.33	ng/L		10/19/22 04:30	10/30/22 17:37	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	142		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C4 PFHpA	118		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C4 PFOA	96		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C5 PFNA	130		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C2 PFDA	124		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C2 PFUnA	99		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C2 PFDoA	101		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C2 PFTeDA	113		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C3 PFBS	106		25 - 150				10/19/22 04:30	10/30/22 17:37	1
18O2 PFHxS	118		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C4 PFOS	122		25 - 150				10/19/22 04:30	10/30/22 17:37	1
13C8 FOSA	115		10 - 150				10/19/22 04:30	10/30/22 17:37	1
d3-NMeFOSAA	104		25 - 150				10/19/22 04:30	10/30/22 17:37	1
d5-NEtFOSAA	97		25 - 150				10/19/22 04:30	10/30/22 17:37	1
d-N-MeFOSA-M	97		10 - 150				10/19/22 04:30	10/30/22 17:37	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: DUP-02-202210**

**Lab Sample ID: 320-93224-34**

Date Collected: 10/11/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d-N-EtFOSA-M	91		10 - 150	10/19/22 04:30	10/30/22 17:37	1
d7-N-MeFOSE-M	84		10 - 150	10/19/22 04:30	10/30/22 17:37	1
d9-N-EtFOSE-M	89		10 - 150	10/19/22 04:30	10/30/22 17:37	1
M2-4:2 FTS	101		25 - 150	10/19/22 04:30	10/30/22 17:37	1
M2-8:2 FTS	115		25 - 150	10/19/22 04:30	10/30/22 17:37	1
13C3 HFPO-DA	131		25 - 150	10/19/22 04:30	10/30/22 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1100		100	25	ng/L		10/19/22 04:30	11/05/22 20:43	50
Perfluorohexanoic acid (PFHxA)	760		100	30	ng/L		10/19/22 04:30	11/05/22 20:43	50
6:2 FTS	4700		250	130	ng/L		10/19/22 04:30	11/05/22 20:43	50

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	99		25 - 150	10/19/22 04:30	11/05/22 20:43	50
13C2 PFHxA	106		25 - 150	10/19/22 04:30	11/05/22 20:43	50
M2-6:2 FTS	107		25 - 150	10/19/22 04:30	11/05/22 20:43	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<0.24	H	2.0	0.24	ng/L		10/19/22 04:30	11/24/22 18:35	1

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	117		25 - 150	10/19/22 04:30	11/24/22 18:35	1

**Client Sample ID: DUP-03-202210**

**Lab Sample ID: 320-93224-35**

Date Collected: 10/11/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	55		5.0	2.4	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluoropentanoic acid (PFPeA)	330		2.0	0.49	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorohexanoic acid (PFHxA)	180		2.0	0.58	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluoroheptanoic acid (PFHpA)	73		2.0	0.25	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorooctanoic acid (PFOA)	65		2.0	0.85	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorononanoic acid (PFNA)	6.0		2.0	0.27	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorodecanoic acid (PFDA)	0.59	J	2.0	0.31	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorobutanesulfonic acid (PFBS)	0.26	J	2.0	0.20	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorohexanesulfonic acid (PFHxS)	0.67	J	2.0	0.57	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorooctanesulfonic acid (PFOS)	1.6	J	2.0	0.54	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluoronanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 12:15	10/30/22 23:33	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: DUP-03-202210**

**Lab Sample ID: 320-93224-35**

**Date Collected: 10/11/22 00:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/19/22 12:15	10/30/22 23:33	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/19/22 12:15	10/30/22 23:33	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/19/22 12:15	10/30/22 23:33	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 12:15	10/30/22 23:33	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 12:15	10/30/22 23:33	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 12:15	10/30/22 23:33	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 12:15	10/30/22 23:33	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/19/22 12:15	10/30/22 23:33	1
<b>4:2 FTS</b>	<b>3.6</b>		2.0	0.24	ng/L		10/19/22 12:15	10/30/22 23:33	1
<b>8:2 FTS</b>	<b>38</b>		2.0	0.46	ng/L		10/19/22 12:15	10/30/22 23:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 12:15	10/30/22 23:33	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 12:15	10/30/22 23:33	1
9CI-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 12:15	10/30/22 23:33	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 12:15	10/30/22 23:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	105		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C5 PFPeA	93		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C2 PFHxA	84		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C4 PFHpA	84		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C4 PFOA	89		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C5 PFNA	101		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C2 PFDA	96		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C2 PFUnA	83		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C2 PFDoA	72		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C2 PFTeDA	82		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C3 PFBS	76		25 - 150	10/19/22 12:15	10/30/22 23:33	1
18O2 PFHxS	91		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C4 PFOS	94		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C8 FOSA	91		10 - 150	10/19/22 12:15	10/30/22 23:33	1
d3-NMeFOSAA	88		25 - 150	10/19/22 12:15	10/30/22 23:33	1
d5-NEtFOSAA	76		25 - 150	10/19/22 12:15	10/30/22 23:33	1
d-N-MeFOSA-M	82		10 - 150	10/19/22 12:15	10/30/22 23:33	1
d-N-EtFOSA-M	71		10 - 150	10/19/22 12:15	10/30/22 23:33	1
d7-N-MeFOSE-M	70		10 - 150	10/19/22 12:15	10/30/22 23:33	1
d9-N-EtFOSE-M	69		10 - 150	10/19/22 12:15	10/30/22 23:33	1
M2-4:2 FTS	82		25 - 150	10/19/22 12:15	10/30/22 23:33	1
M2-8:2 FTS	89		25 - 150	10/19/22 12:15	10/30/22 23:33	1
13C3 HFPO-DA	83		25 - 150	10/19/22 12:15	10/30/22 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>6:2 FTS</b>	<b>580</b>		25	13	ng/L		10/19/22 12:15	11/01/22 02:59	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
M2-6:2 FTS	72		25 - 150	10/19/22 12:15	11/01/22 02:59	5			

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: DUP-04-202210**

**Lab Sample ID: 320-93224-36**

Date Collected: 10/13/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		5.0	2.4	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluoropentanoic acid (PFPeA)	50		2.0	0.49	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorohexanoic acid (PFHxA)	47		2.0	0.58	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluoroheptanoic acid (PFHpA)	17		2.0	0.25	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorooctanoic acid (PFOA)	31		2.0	0.85	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorononanoic acid (PFNA)	1.7	J	2.0	0.27	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/19/22 12:15	10/30/22 23:43	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/19/22 12:15	10/30/22 23:43	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/19/22 12:15	10/30/22 23:43	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 12:15	10/30/22 23:43	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 12:15	10/30/22 23:43	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 12:15	10/30/22 23:43	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 12:15	10/30/22 23:43	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/19/22 12:15	10/30/22 23:43	1
4:2 FTS	3.1		2.0	0.24	ng/L		10/19/22 12:15	10/30/22 23:43	1
8:2 FTS	28		2.0	0.46	ng/L		10/19/22 12:15	10/30/22 23:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 12:15	10/30/22 23:43	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 12:15	10/30/22 23:43	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 12:15	10/30/22 23:43	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 12:15	10/30/22 23:43	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	72		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C5 PFPeA	74		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C2 PFHxA	58		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C4 PFHpA	54		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C4 PFOA	59		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C5 PFNA	67		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C2 PFDA	65		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C2 PFUnA	61		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C2 PFDoA	40		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C2 PFTeDA	42		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C3 PFBS	53		25 - 150	10/19/22 12:15	10/30/22 23:43	1
18O2 PFHxS	60		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C4 PFOS	61		25 - 150	10/19/22 12:15	10/30/22 23:43	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: DUP-04-202210**

**Lab Sample ID: 320-93224-36**

**Date Collected: 10/13/22 00:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 FOSA	60		10 - 150	10/19/22 12:15	10/30/22 23:43	1
d3-NMeFOSAA	33		25 - 150	10/19/22 12:15	10/30/22 23:43	1
d5-NEtFOSAA	51		25 - 150	10/19/22 12:15	10/30/22 23:43	1
d-N-MeFOSA-M	29		10 - 150	10/19/22 12:15	10/30/22 23:43	1
d-N-EtFOSA-M	39		10 - 150	10/19/22 12:15	10/30/22 23:43	1
d7-N-MeFOSE-M	29		10 - 150	10/19/22 12:15	10/30/22 23:43	1
d9-N-EtFOSE-M	42		10 - 150	10/19/22 12:15	10/30/22 23:43	1
M2-4:2 FTS	62		25 - 150	10/19/22 12:15	10/30/22 23:43	1
M2-8:2 FTS	92		25 - 150	10/19/22 12:15	10/30/22 23:43	1
13C3 HFPO-DA	55		25 - 150	10/19/22 12:15	10/30/22 23:43	1

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

<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>
6:2 FTS	460		25	12	ng/L		10/19/22 12:15	11/01/22 03:09	5

  

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	59		25 - 150	10/19/22 12:15	11/01/22 03:09	5

**Client Sample ID: MP-01-EB-202210**

**Lab Sample ID: 320-93224-37**

**Date Collected: 10/12/22 12:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

**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)	<2.3		4.7	2.3	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorooctanoic acid (PFOA)	<0.80		1.9	0.80	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/19/22 12:15	10/30/22 23:53	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/19/22 12:15	10/30/22 23:53	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/19/22 12:15	10/30/22 23:53	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/19/22 12:15	10/30/22 23:53	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		10/19/22 12:15	10/30/22 23:53	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		10/19/22 12:15	10/30/22 23:53	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/19/22 12:15	10/30/22 23:53	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-EB-202210**

**Lab Sample ID: 320-93224-37**

Date Collected: 10/12/22 12:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.80		1.9	0.80	ng/L		10/19/22 12:15	10/30/22 23:53	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/30/22 23:53	1
6:2 FTS	<2.4		4.7	2.4	ng/L		10/19/22 12:15	10/30/22 23:53	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/19/22 12:15	10/30/22 23:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		10/19/22 12:15	10/30/22 23:53	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/19/22 12:15	10/30/22 23:53	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/30/22 23:53	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/30/22 23:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C5 PFPeA	91		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C2 PFHxA	86		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C4 PFHpA	92		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C4 PFOA	85		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C5 PFNA	98		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C2 PFDA	92		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C2 PFUnA	81		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C2 PFDoA	76		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C2 PFTeDA	86		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C3 PFBS	76		25 - 150				10/19/22 12:15	10/30/22 23:53	1
18O2 PFHxS	83		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C4 PFOS	84		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C8 FOSA	84		10 - 150				10/19/22 12:15	10/30/22 23:53	1
d3-NMeFOSAA	78		25 - 150				10/19/22 12:15	10/30/22 23:53	1
d5-NEtFOSAA	83		25 - 150				10/19/22 12:15	10/30/22 23:53	1
d-N-MeFOSA-M	76		10 - 150				10/19/22 12:15	10/30/22 23:53	1
d-N-EtFOSA-M	72		10 - 150				10/19/22 12:15	10/30/22 23:53	1
d7-N-MeFOSE-M	68		10 - 150				10/19/22 12:15	10/30/22 23:53	1
d9-N-EtFOSE-M	69		10 - 150				10/19/22 12:15	10/30/22 23:53	1
M2-4:2 FTS	78		25 - 150				10/19/22 12:15	10/30/22 23:53	1
M2-6:2 FTS	87		25 - 150				10/19/22 12:15	10/30/22 23:53	1
M2-8:2 FTS	84		25 - 150				10/19/22 12:15	10/30/22 23:53	1
13C3 HFPO-DA	88		25 - 150				10/19/22 12:15	10/30/22 23:53	1

**Client Sample ID: MP-02-EB-202210**

**Lab Sample ID: 320-93224-38**

Date Collected: 10/12/22 07:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		4.9	2.4	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorooctanoic acid (PFOA)	<0.84		2.0	0.84	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/19/22 12:15	10/31/22 00:03	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-EB-202210**

**Lab Sample ID: 320-93224-38**

Date Collected: 10/12/22 07:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		10/19/22 12:15	10/31/22 00:03	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/19/22 12:15	10/31/22 00:03	1
NEtFOSA	<0.86		2.0	0.86	ng/L		10/19/22 12:15	10/31/22 00:03	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/19/22 12:15	10/31/22 00:03	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		10/19/22 12:15	10/31/22 00:03	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		10/19/22 12:15	10/31/22 00:03	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/19/22 12:15	10/31/22 00:03	1
NEtFOSE	<0.84		2.0	0.84	ng/L		10/19/22 12:15	10/31/22 00:03	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/19/22 12:15	10/31/22 00:03	1
6:2 FTS	<2.5		4.9	2.5	ng/L		10/19/22 12:15	10/31/22 00:03	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/19/22 12:15	10/31/22 00:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		2.0	0.39	ng/L		10/19/22 12:15	10/31/22 00:03	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/19/22 12:15	10/31/22 00:03	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 12:15	10/31/22 00:03	1
11Cl-PF3OUdS	<0.31		2.0	0.31	ng/L		10/19/22 12:15	10/31/22 00:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C5 PFPeA	93		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C2 PFHxA	91		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C4 PFHpA	91		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C4 PFOA	107		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C5 PFNA	95		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C2 PFDA	92		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C2 PFUnA	79		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C2 PFDoA	88		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C2 PFTeDA	82		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C3 PFBS	72		25 - 150	10/19/22 12:15	10/31/22 00:03	1
18O2 PFHxS	87		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C4 PFOS	90		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C8 FOSA	88		10 - 150	10/19/22 12:15	10/31/22 00:03	1
d3-NMeFOSAA	77		25 - 150	10/19/22 12:15	10/31/22 00:03	1
d5-NEtFOSAA	80		25 - 150	10/19/22 12:15	10/31/22 00:03	1
d-N-MeFOSA-M	73		10 - 150	10/19/22 12:15	10/31/22 00:03	1
d-N-EtFOSA-M	71		10 - 150	10/19/22 12:15	10/31/22 00:03	1
d7-N-MeFOSE-M	66		10 - 150	10/19/22 12:15	10/31/22 00:03	1
d9-N-EtFOSE-M	65		10 - 150	10/19/22 12:15	10/31/22 00:03	1
M2-4:2 FTS	79		25 - 150	10/19/22 12:15	10/31/22 00:03	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-EB-202210**

**Lab Sample ID: 320-93224-38**

Date Collected: 10/12/22 07:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	90		25 - 150	10/19/22 12:15	10/31/22 00:03	1
M2-8:2 FTS	84		25 - 150	10/19/22 12:15	10/31/22 00:03	1
13C3 HFPO-DA	94		25 - 150	10/19/22 12:15	10/31/22 00:03	1

**Client Sample ID: MP-03-EB-202210**

**Lab Sample ID: 320-93224-39**

Date Collected: 10/11/22 12:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorooctanoic acid (PFOA)	<0.80		1.9	0.80	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorotridecanoic acid (PFTTrDA)	<1.2		1.9	1.2	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorotetradecanoic acid (PFTTeA)	<0.69		1.9	0.69	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/19/22 12:15	10/31/22 00:13	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/19/22 12:15	10/31/22 00:13	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/19/22 12:15	10/31/22 00:13	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/19/22 12:15	10/31/22 00:13	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		10/19/22 12:15	10/31/22 00:13	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		10/19/22 12:15	10/31/22 00:13	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/19/22 12:15	10/31/22 00:13	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/19/22 12:15	10/31/22 00:13	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 00:13	1
6:2 FTS	<2.4		4.7	2.4	ng/L		10/19/22 12:15	10/31/22 00:13	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/19/22 12:15	10/31/22 00:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		10/19/22 12:15	10/31/22 00:13	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/19/22 12:15	10/31/22 00:13	1
9CI-PF3ONS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 00:13	1
11CI-PF3OUdS	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 00:13	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	103		25 - 150	10/19/22 12:15	10/31/22 00:13	1			
13C5 PFPeA	88		25 - 150	10/19/22 12:15	10/31/22 00:13	1			
13C2 PFHxA	78		25 - 150	10/19/22 12:15	10/31/22 00:13	1			

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-EB-202210**

**Lab Sample ID: 320-93224-39**

Date Collected: 10/11/22 12:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	87		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C4 PFOA	90		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C5 PFNA	100		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C2 PFDA	92		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C2 PFUnA	81		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C2 PFDoA	76		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C2 PFTeDA	79		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C3 PFBS	77		25 - 150	10/19/22 12:15	10/31/22 00:13	1
18O2 PFHxS	88		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C4 PFOS	88		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C8 FOSA	85		10 - 150	10/19/22 12:15	10/31/22 00:13	1
d3-NMeFOSAA	68		25 - 150	10/19/22 12:15	10/31/22 00:13	1
d5-NEtFOSAA	71		25 - 150	10/19/22 12:15	10/31/22 00:13	1
d-N-MeFOSA-M	81		10 - 150	10/19/22 12:15	10/31/22 00:13	1
d-N-EtFOSA-M	73		10 - 150	10/19/22 12:15	10/31/22 00:13	1
d7-N-MeFOSE-M	69		10 - 150	10/19/22 12:15	10/31/22 00:13	1
d9-N-EtFOSE-M	64		10 - 150	10/19/22 12:15	10/31/22 00:13	1
M2-4:2 FTS	80		25 - 150	10/19/22 12:15	10/31/22 00:13	1
M2-6:2 FTS	95		25 - 150	10/19/22 12:15	10/31/22 00:13	1
M2-8:2 FTS	87		25 - 150	10/19/22 12:15	10/31/22 00:13	1
13C3 HFPO-DA	80		25 - 150	10/19/22 12:15	10/31/22 00:13	1

**Client Sample ID: MP-04-EB-202210**

**Lab Sample ID: 320-93224-40**

Date Collected: 10/11/22 09:30

Matrix: Water

Date Received: 10/14/22 14:20

**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		10/19/22 12:15	10/31/22 00:24	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorotridecanoic acid (PFTTrDA)	<1.2		1.8	1.2	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/19/22 12:15	10/31/22 00:24	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/19/22 12:15	10/31/22 00:24	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-EB-202210**

**Lab Sample ID: 320-93224-40**

Date Collected: 10/11/22 09:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<0.80		1.8	0.80	ng/L		10/19/22 12:15	10/31/22 00:24	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/19/22 12:15	10/31/22 00:24	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		10/19/22 12:15	10/31/22 00:24	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		10/19/22 12:15	10/31/22 00:24	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/19/22 12:15	10/31/22 00:24	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/19/22 12:15	10/31/22 00:24	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 00:24	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/19/22 12:15	10/31/22 00:24	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/19/22 12:15	10/31/22 00:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		10/19/22 12:15	10/31/22 00:24	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/19/22 12:15	10/31/22 00:24	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 00:24	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 00:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C5 PFPeA	96		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C2 PFHxA	81		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C4 PFHpA	86		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C4 PFOA	92		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C5 PFNA	96		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C2 PFDA	100		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C2 PFUnA	86		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C2 PFDoA	71		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C2 PFTeDA	78		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C3 PFBS	76		25 - 150				10/19/22 12:15	10/31/22 00:24	1
18O2 PFHxS	84		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C4 PFOS	89		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C8 FOSA	81		10 - 150				10/19/22 12:15	10/31/22 00:24	1
d3-NMeFOSAA	70		25 - 150				10/19/22 12:15	10/31/22 00:24	1
d5-NEtFOSAA	76		25 - 150				10/19/22 12:15	10/31/22 00:24	1
d-N-MeFOSA-M	64		10 - 150				10/19/22 12:15	10/31/22 00:24	1
d-N-EtFOSA-M	65		10 - 150				10/19/22 12:15	10/31/22 00:24	1
d7-N-MeFOSE-M	64		10 - 150				10/19/22 12:15	10/31/22 00:24	1
d9-N-EtFOSE-M	79		10 - 150				10/19/22 12:15	10/31/22 00:24	1
M2-4:2 FTS	91		25 - 150				10/19/22 12:15	10/31/22 00:24	1
M2-6:2 FTS	90		25 - 150				10/19/22 12:15	10/31/22 00:24	1
M2-8:2 FTS	123		25 - 150				10/19/22 12:15	10/31/22 00:24	1
13C3 HFPO-DA	79		25 - 150				10/19/22 12:15	10/31/22 00:24	1

**Client Sample ID: MP-05-EB-202210**

**Lab Sample ID: 320-93224-41**

Date Collected: 10/11/22 08:30

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		10/19/22 12:15	10/31/22 00:34	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-05-EB-202210**

**Lab Sample ID: 320-93224-41**

**Date Collected: 10/11/22 08:30**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.80		1.9	0.80	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/19/22 12:15	10/31/22 00:34	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/19/22 12:15	10/31/22 00:34	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/19/22 12:15	10/31/22 00:34	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/19/22 12:15	10/31/22 00:34	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		10/19/22 12:15	10/31/22 00:34	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		10/19/22 12:15	10/31/22 00:34	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/19/22 12:15	10/31/22 00:34	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/19/22 12:15	10/31/22 00:34	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 00:34	1
6:2 FTS	<2.4		4.7	2.4	ng/L		10/19/22 12:15	10/31/22 00:34	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/19/22 12:15	10/31/22 00:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		10/19/22 12:15	10/31/22 00:34	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/19/22 12:15	10/31/22 00:34	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 00:34	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 00:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C5 PFPeA	96		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C2 PFHxA	84		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C4 PFHpA	86		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C4 PFOA	88		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C5 PFNA	93		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C2 PFDA	91		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C2 PFUnA	87		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C2 PFDoA	77		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C2 PFTeDA	78		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C3 PFBS	73		25 - 150				10/19/22 12:15	10/31/22 00:34	1
18O2 PFHxS	85		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C4 PFOS	88		25 - 150				10/19/22 12:15	10/31/22 00:34	1
13C8 FOSA	83		10 - 150				10/19/22 12:15	10/31/22 00:34	1
d3-NMeFOSAA	72		25 - 150				10/19/22 12:15	10/31/22 00:34	1
d5-NEtFOSAA	75		25 - 150				10/19/22 12:15	10/31/22 00:34	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-05-EB-202210**

**Lab Sample ID: 320-93224-41**

**Date Collected: 10/11/22 08:30**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>d-N-MeFOSA-M</i>	76		10 - 150	10/19/22 12:15	10/31/22 00:34	1
<i>d-N-EtFOSA-M</i>	73		10 - 150	10/19/22 12:15	10/31/22 00:34	1
<i>d7-N-MeFOSE-M</i>	79		10 - 150	10/19/22 12:15	10/31/22 00:34	1
<i>d9-N-EtFOSE-M</i>	65		10 - 150	10/19/22 12:15	10/31/22 00:34	1
<i>M2-4:2 FTS</i>	74		25 - 150	10/19/22 12:15	10/31/22 00:34	1
<i>M2-6:2 FTS</i>	84		25 - 150	10/19/22 12:15	10/31/22 00:34	1
<i>M2-8:2 FTS</i>	95		25 - 150	10/19/22 12:15	10/31/22 00:34	1
<i>13C3 HFPO-DA</i>	82		25 - 150	10/19/22 12:15	10/31/22 00:34	1

**Client Sample ID: FB-01-202210**

**Lab Sample ID: 320-93224-42**

**Date Collected: 10/11/22 10:25**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

**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)	<2.3		4.8	2.3	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		10/19/22 12:15	10/31/22 01:14	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		10/19/22 12:15	10/31/22 01:14	1
NEtFOSA	<0.83		1.9	0.83	ng/L		10/19/22 12:15	10/31/22 01:14	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/19/22 12:15	10/31/22 01:14	1
NMeFOSAA	<1.1		4.8	1.1	ng/L		10/19/22 12:15	10/31/22 01:14	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		10/19/22 12:15	10/31/22 01:14	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/19/22 12:15	10/31/22 01:14	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/19/22 12:15	10/31/22 01:14	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 01:14	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/19/22 12:15	10/31/22 01:14	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/19/22 12:15	10/31/22 01:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		10/19/22 12:15	10/31/22 01:14	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/19/22 12:15	10/31/22 01:14	1
9CI-PF3ONS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 01:14	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: FB-01-202210**

**Lab Sample ID: 320-93224-42**

**Date Collected: 10/11/22 10:25**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	<0.31		1.9	0.31	ng/L		10/19/22 12:15	10/31/22 01:14	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	110		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C5 PFPeA	101		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C2 PFHxA	91		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C4 PFHpA	94		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C4 PFOA	97		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C5 PFNA	106		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C2 PFDA	98		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C2 PFUnA	82		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C2 PFDoA	76		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C2 PFTeDA	78		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C3 PFBS	83		25 - 150				10/19/22 12:15	10/31/22 01:14	1
18O2 PFHxS	90		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C4 PFOS	93		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C8 FOSA	82		10 - 150				10/19/22 12:15	10/31/22 01:14	1
d3-NMeFOSAA	72		25 - 150				10/19/22 12:15	10/31/22 01:14	1
d5-NEtFOSAA	73		25 - 150				10/19/22 12:15	10/31/22 01:14	1
d-N-MeFOSA-M	69		10 - 150				10/19/22 12:15	10/31/22 01:14	1
d-N-EtFOSA-M	71		10 - 150				10/19/22 12:15	10/31/22 01:14	1
d7-N-MeFOSE-M	70		10 - 150				10/19/22 12:15	10/31/22 01:14	1
d9-N-EtFOSE-M	62		10 - 150				10/19/22 12:15	10/31/22 01:14	1
M2-4:2 FTS	85		25 - 150				10/19/22 12:15	10/31/22 01:14	1
M2-6:2 FTS	93		25 - 150				10/19/22 12:15	10/31/22 01:14	1
M2-8:2 FTS	83		25 - 150				10/19/22 12:15	10/31/22 01:14	1
13C3 HFPO-DA	88		25 - 150				10/19/22 12:15	10/31/22 01:14	1

**Client Sample ID: MW-01-202210**

**Lab Sample ID: 320-93224-43**

**Date Collected: 10/11/22 16:14**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>320</b>		4.7	2.3	ng/L		10/19/22 12:15	10/31/22 01:25	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>140</b>		1.9	0.80	ng/L		10/19/22 12:15	10/31/22 01:25	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>14</b>		1.9	0.25	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluorotridecanoic acid (PFTTrDA)	<1.2		1.9	1.2	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/19/22 12:15	10/31/22 01:25	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.74 J</b>		1.9	0.19	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/19/22 12:15	10/31/22 01:25	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>0.97 J</b>		1.9	0.53	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/22 12:15	10/31/22 01:25	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>3.7</b>		1.9	0.51	ng/L		10/19/22 12:15	10/31/22 01:25	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-01-202210**

**Lab Sample ID: 320-93224-43**

Date Collected: 10/11/22 16:14

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoronanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/19/22 12:15	10/31/22 01:25	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/19/22 12:15	10/31/22 01:25	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/19/22 12:15	10/31/22 01:25	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/19/22 12:15	10/31/22 01:25	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		10/19/22 12:15	10/31/22 01:25	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		10/19/22 12:15	10/31/22 01:25	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/19/22 12:15	10/31/22 01:25	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/19/22 12:15	10/31/22 01:25	1
<b>4:2 FTS</b>	<b>0.40</b>	<b>J</b>	1.9	0.23	ng/L		10/19/22 12:15	10/31/22 01:25	1
<b>8:2 FTS</b>	<b>29</b>		1.9	0.43	ng/L		10/19/22 12:15	10/31/22 01:25	1
4,8-Dioxa-3H-perfluoronanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		10/19/22 12:15	10/31/22 01:25	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/19/22 12:15	10/31/22 01:25	1
9CI-PF3ONS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 01:25	1
11CI-PF3OUdS	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 01:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	108		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C4 PFOA	89		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C5 PFNA	104		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C2 PFDA	113		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C2 PFUnA	93		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C2 PFDoA	89		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C2 PFTeDA	93		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C3 PFBS	86		25 - 150				10/19/22 12:15	10/31/22 01:25	1
18O2 PFHxS	90		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C4 PFOS	95		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C8 FOSA	101		10 - 150				10/19/22 12:15	10/31/22 01:25	1
d3-NMeFOSAA	79		25 - 150				10/19/22 12:15	10/31/22 01:25	1
d5-NEtFOSAA	88		25 - 150				10/19/22 12:15	10/31/22 01:25	1
d-N-MeFOSA-M	82		10 - 150				10/19/22 12:15	10/31/22 01:25	1
d-N-EtFOSA-M	78		10 - 150				10/19/22 12:15	10/31/22 01:25	1
d7-N-MeFOSE-M	75		10 - 150				10/19/22 12:15	10/31/22 01:25	1
d9-N-EtFOSE-M	75		10 - 150				10/19/22 12:15	10/31/22 01:25	1
M2-4:2 FTS	88		25 - 150				10/19/22 12:15	10/31/22 01:25	1
M2-8:2 FTS	90		25 - 150				10/19/22 12:15	10/31/22 01:25	1
13C3 HFPO-DA	114		25 - 150				10/19/22 12:15	10/31/22 01:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1400		19	4.6	ng/L		10/19/22 12:15	11/01/22 03:29	10
Perfluorohexanoic acid (PFHxA)	780		19	5.4	ng/L		10/19/22 12:15	11/01/22 03:29	10
Perfluoroheptanoic acid (PFHpA)	800		19	2.3	ng/L		10/19/22 12:15	11/01/22 03:29	10
<b>6:2 FTS</b>	<b>840</b>		47	23	ng/L		10/19/22 12:15	11/01/22 03:29	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	98		25 - 150				10/19/22 12:15	11/01/22 03:29	10
13C2 PFHxA	86		25 - 150				10/19/22 12:15	11/01/22 03:29	10
13C4 PFHpA	85		25 - 150				10/19/22 12:15	11/01/22 03:29	10

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-01-202210**

**Lab Sample ID: 320-93224-43**

Date Collected: 10/11/22 16:14

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	87		25 - 150	10/19/22 12:15	11/01/22 03:29	10

**Client Sample ID: MW-02-202210**

**Lab Sample ID: 320-93224-44**

Date Collected: 10/12/22 13:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	300		4.5	2.1	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluoroheptanoic acid (PFHpA)	270		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorooctanoic acid (PFOA)	190		1.8	0.76	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorononanoic acid (PFNA)	24		1.8	0.24	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorodecanoic acid (PFDA)	2.7		1.8	0.28	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorobutanesulfonic acid (PFBS)	0.71	J	1.8	0.18	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	1.8	0.51	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorooctanesulfonic acid (PFOS)	2.5		1.8	0.48	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		10/19/22 12:15	10/31/22 01:35	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		10/19/22 12:15	10/31/22 01:35	1
NEtFOSA	<0.78		1.8	0.78	ng/L		10/19/22 12:15	10/31/22 01:35	1
NMeFOSA	<0.38		1.8	0.38	ng/L		10/19/22 12:15	10/31/22 01:35	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		10/19/22 12:15	10/31/22 01:35	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		10/19/22 12:15	10/31/22 01:35	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/19/22 12:15	10/31/22 01:35	1
NEtFOSE	<0.76		1.8	0.76	ng/L		10/19/22 12:15	10/31/22 01:35	1
4:2 FTS	3.2		1.8	0.21	ng/L		10/19/22 12:15	10/31/22 01:35	1
8:2 FTS	99		1.8	0.41	ng/L		10/19/22 12:15	10/31/22 01:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		10/19/22 12:15	10/31/22 01:35	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		10/19/22 12:15	10/31/22 01:35	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		10/19/22 12:15	10/31/22 01:35	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 01:35	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	100		25 - 150	10/19/22 12:15	10/31/22 01:35	1			
13C4 PFHpA	88		25 - 150	10/19/22 12:15	10/31/22 01:35	1			
13C4 PFOA	99		25 - 150	10/19/22 12:15	10/31/22 01:35	1			
13C5 PFNA	99		25 - 150	10/19/22 12:15	10/31/22 01:35	1			
13C2 PFDA	92		25 - 150	10/19/22 12:15	10/31/22 01:35	1			

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-02-202210**

**Lab Sample ID: 320-93224-44**

Date Collected: 10/12/22 13:20

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	76		25 - 150	10/19/22 12:15	10/31/22 01:35	1
13C2 PFDoA	73		25 - 150	10/19/22 12:15	10/31/22 01:35	1
13C2 PFTeDA	85		25 - 150	10/19/22 12:15	10/31/22 01:35	1
13C3 PFBS	76		25 - 150	10/19/22 12:15	10/31/22 01:35	1
18O2 PFHxS	84		25 - 150	10/19/22 12:15	10/31/22 01:35	1
13C4 PFOS	91		25 - 150	10/19/22 12:15	10/31/22 01:35	1
13C8 FOSA	90		10 - 150	10/19/22 12:15	10/31/22 01:35	1
d3-NMeFOSAA	71		25 - 150	10/19/22 12:15	10/31/22 01:35	1
d5-NEtFOSAA	72		25 - 150	10/19/22 12:15	10/31/22 01:35	1
d-N-MeFOSA-M	80		10 - 150	10/19/22 12:15	10/31/22 01:35	1
d-N-EtFOSA-M	77		10 - 150	10/19/22 12:15	10/31/22 01:35	1
d7-N-MeFOSE-M	67		10 - 150	10/19/22 12:15	10/31/22 01:35	1
d9-N-EtFOSE-M	62		10 - 150	10/19/22 12:15	10/31/22 01:35	1
M2-4:2 FTS	73		25 - 150	10/19/22 12:15	10/31/22 01:35	1
M2-8:2 FTS	78		25 - 150	10/19/22 12:15	10/31/22 01:35	1
13C3 HFPO-DA	90		25 - 150	10/19/22 12:15	10/31/22 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1400		18	4.4	ng/L		10/19/22 12:15	11/01/22 03:39	10
Perfluorohexanoic acid (PFHxA)	790		18	5.2	ng/L		10/19/22 12:15	11/01/22 03:39	10
6:2 FTS	1200		45	22	ng/L		10/19/22 12:15	11/01/22 03:39	10

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	95		25 - 150	10/19/22 12:15	11/01/22 03:39	10
13C2 PFHxA	88		25 - 150	10/19/22 12:15	11/01/22 03:39	10
M2-6:2 FTS	74		25 - 150	10/19/22 12:15	11/01/22 03:39	10

**Client Sample ID: MW-03-202210**

**Lab Sample ID: 320-93224-45**

Date Collected: 10/11/22 15:03

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.5		4.5	2.2	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluoropentanoic acid (PFPeA)	1.2	J	1.8	0.44	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorohexanoic acid (PFHxA)	0.82	J	1.8	0.52	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluoroheptanoic acid (PFHpA)	0.84	J	1.8	0.23	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorotridecanoic acid (PFTTrDA)	<1.2		1.8	1.2	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorobutanesulfonic acid (PFBS)	0.82	J	1.8	0.18	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/19/22 12:15	10/31/22 01:45	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-03-202210**

**Lab Sample ID: 320-93224-45**

**Date Collected: 10/11/22 15:03**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		10/19/22 12:15	10/31/22 01:45	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		10/19/22 12:15	10/31/22 01:45	1
NEtFOSA	<0.79		1.8	0.79	ng/L		10/19/22 12:15	10/31/22 01:45	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/19/22 12:15	10/31/22 01:45	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		10/19/22 12:15	10/31/22 01:45	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		10/19/22 12:15	10/31/22 01:45	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/19/22 12:15	10/31/22 01:45	1
NEtFOSE	<0.77		1.8	0.77	ng/L		10/19/22 12:15	10/31/22 01:45	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 01:45	1
6:2 FTS	<2.3		4.5	2.3	ng/L		10/19/22 12:15	10/31/22 01:45	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/19/22 12:15	10/31/22 01:45	1
4,8-Dioxa-3H-perfluoronanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		10/19/22 12:15	10/31/22 01:45	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		10/19/22 12:15	10/31/22 01:45	1
9CI-PF3ONS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 01:45	1
11CI-PF3OUdS	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 01:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C5 PFPeA	82		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C2 PFHxA	80		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C4 PFHpA	79		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C4 PFOA	84		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C5 PFNA	96		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C2 PFDA	87		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C2 PFUnA	77		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C2 PFDoA	76		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C2 PFTeDA	81		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C3 PFBS	73		25 - 150	10/19/22 12:15	10/31/22 01:45	1
18O2 PFHxS	83		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C4 PFOS	90		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C8 FOSA	87		10 - 150	10/19/22 12:15	10/31/22 01:45	1
d3-NMeFOSAA	69		25 - 150	10/19/22 12:15	10/31/22 01:45	1
d5-NEtFOSAA	72		25 - 150	10/19/22 12:15	10/31/22 01:45	1
d-N-MeFOSA-M	74		10 - 150	10/19/22 12:15	10/31/22 01:45	1
d-N-EtFOSA-M	69		10 - 150	10/19/22 12:15	10/31/22 01:45	1
d7-N-MeFOSE-M	62		10 - 150	10/19/22 12:15	10/31/22 01:45	1
d9-N-EtFOSE-M	61		10 - 150	10/19/22 12:15	10/31/22 01:45	1
M2-4:2 FTS	74		25 - 150	10/19/22 12:15	10/31/22 01:45	1
M2-6:2 FTS	85		25 - 150	10/19/22 12:15	10/31/22 01:45	1
M2-8:2 FTS	74		25 - 150	10/19/22 12:15	10/31/22 01:45	1
13C3 HFPO-DA	77		25 - 150	10/19/22 12:15	10/31/22 01:45	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-04-202210**

**Lab Sample ID: 320-93224-46**

Date Collected: 10/12/22 14:49

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	85		1.9	0.25	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorodecanoic acid (PFDA)	33		1.9	0.29	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluoroundecanoic acid (PFUnA)	2.3		1.9	1.0	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorododecanoic acid (PFDoA)	0.85	J	1.9	0.52	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorobutanesulfonic acid (PFBS)	0.93	J	1.9	0.19	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluoropentanesulfonic acid (PFPeS)	0.62	J	1.9	0.28	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorohexanesulfonic acid (PFHxS)	5.2		1.9	0.54	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorooctanesulfonic acid (PFOS)	28		1.9	0.51	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/19/22 12:15	10/31/22 01:55	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/19/22 12:15	10/31/22 01:55	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/19/22 12:15	10/31/22 01:55	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/19/22 12:15	10/31/22 01:55	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		10/19/22 12:15	10/31/22 01:55	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		10/19/22 12:15	10/31/22 01:55	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/19/22 12:15	10/31/22 01:55	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/19/22 12:15	10/31/22 01:55	1
<b>4:2 FTS</b>	<b>63</b>		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 01:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		10/19/22 12:15	10/31/22 01:55	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/19/22 12:15	10/31/22 01:55	1
9CI-PF3ONS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 01:55	1
11CI-PF3OUdS	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 01:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	121		25 - 150	10/19/22 12:15	10/31/22 01:55	1
13C2 PFDA	103		25 - 150	10/19/22 12:15	10/31/22 01:55	1
13C2 PFUnA	98		25 - 150	10/19/22 12:15	10/31/22 01:55	1
13C2 PFDoA	95		25 - 150	10/19/22 12:15	10/31/22 01:55	1
13C2 PFTeDA	106		25 - 150	10/19/22 12:15	10/31/22 01:55	1
13C3 PFBS	104		25 - 150	10/19/22 12:15	10/31/22 01:55	1
18O2 PFHxS	109		25 - 150	10/19/22 12:15	10/31/22 01:55	1
13C4 PFOS	114		25 - 150	10/19/22 12:15	10/31/22 01:55	1
13C8 FOSA	98		10 - 150	10/19/22 12:15	10/31/22 01:55	1
d3-NMeFOSAA	89		25 - 150	10/19/22 12:15	10/31/22 01:55	1
d5-NEtFOSAA	89		25 - 150	10/19/22 12:15	10/31/22 01:55	1
d-N-MeFOSA-M	100		10 - 150	10/19/22 12:15	10/31/22 01:55	1
d-N-EtFOSA-M	91		10 - 150	10/19/22 12:15	10/31/22 01:55	1
d7-N-MeFOSE-M	84		10 - 150	10/19/22 12:15	10/31/22 01:55	1
d9-N-EtFOSE-M	77		10 - 150	10/19/22 12:15	10/31/22 01:55	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-04-202210**

**Lab Sample ID: 320-93224-46**

Date Collected: 10/12/22 14:49

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	92		25 - 150	10/19/22 12:15	10/31/22 01:55	1
13C3 HFPO-DA	110		25 - 150	10/19/22 12:15	10/31/22 01:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	520		230	110	ng/L		10/19/22 12:15	11/01/22 03:49	50
Perfluoropentanoic acid (PFPeA)	2100		94	23	ng/L		10/19/22 12:15	11/01/22 03:49	50
Perfluorohexanoic acid (PFHxA)	1700		94	27	ng/L		10/19/22 12:15	11/01/22 03:49	50
Perfluoroheptanoic acid (PFHpA)	1000		94	12	ng/L		10/19/22 12:15	11/01/22 03:49	50
Perfluorooctanoic acid (PFOA)	1500		94	40	ng/L		10/19/22 12:15	11/01/22 03:49	50
6:2 FTS	6200		230	120	ng/L		10/19/22 12:15	11/01/22 03:49	50
8:2 FTS	3100		94	22	ng/L		10/19/22 12:15	11/01/22 03:49	50

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		25 - 150	10/19/22 12:15	11/01/22 03:49	50
13C5 PFPeA	108		25 - 150	10/19/22 12:15	11/01/22 03:49	50
13C2 PFHxA	92		25 - 150	10/19/22 12:15	11/01/22 03:49	50
13C4 PFHpA	86		25 - 150	10/19/22 12:15	11/01/22 03:49	50
13C4 PFOA	85		25 - 150	10/19/22 12:15	11/01/22 03:49	50
M2-6:2 FTS	166	*5+	25 - 150	10/19/22 12:15	11/01/22 03:49	50
M2-8:2 FTS	140		25 - 150	10/19/22 12:15	11/01/22 03:49	50

**Client Sample ID: MW-05-202210**

**Lab Sample ID: 320-93224-47**

Date Collected: 10/12/22 12:03

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	44		4.7	2.3	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluoropentanoic acid (PFPeA)	210		1.9	0.46	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorohexanoic acid (PFHxA)	140		1.9	0.55	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluoroheptanoic acid (PFHpA)	96		1.9	0.24	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorooctanoic acid (PFOA)	64		1.9	0.80	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorononanoic acid (PFNA)	7.2		1.9	0.25	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorodecanoic acid (PFDA)	4.3		1.9	0.29	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorobutanesulfonic acid (PFBS)	0.63	J	1.9	0.19	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorooctanesulfonic acid (PFOS)	4.8		1.9	0.51	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 02:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/19/22 12:15	10/31/22 02:05	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-05-202210**

**Lab Sample ID: 320-93224-47**

Date Collected: 10/12/22 12:03

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/19/22 12:15	10/31/22 02:05	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/19/22 12:15	10/31/22 02:05	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/19/22 12:15	10/31/22 02:05	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		10/19/22 12:15	10/31/22 02:05	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		10/19/22 12:15	10/31/22 02:05	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/19/22 12:15	10/31/22 02:05	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/19/22 12:15	10/31/22 02:05	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 02:05	1
<b>6:2 FTS</b>	<b>140</b>		4.7	2.4	ng/L		10/19/22 12:15	10/31/22 02:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		10/19/22 12:15	10/31/22 02:05	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/19/22 12:15	10/31/22 02:05	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		10/19/22 12:15	10/31/22 02:05	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		10/19/22 12:15	10/31/22 02:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	111		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C5 PFPeA	90		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C2 PFHxA	86		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C4 PFHpA	86		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C4 PFOA	92		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C5 PFNA	95		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C2 PFDA	92		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C2 PFUnA	77		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C2 PFDoA	74		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C2 PFTeDA	81		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C3 PFBS	78		25 - 150	10/19/22 12:15	10/31/22 02:05	1
18O2 PFHxS	92		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C4 PFOS	88		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C8 FOSA	88		10 - 150	10/19/22 12:15	10/31/22 02:05	1
d3-NMeFOSAA	70		25 - 150	10/19/22 12:15	10/31/22 02:05	1
d5-NEtFOSAA	68		25 - 150	10/19/22 12:15	10/31/22 02:05	1
d-N-MeFOSA-M	72		10 - 150	10/19/22 12:15	10/31/22 02:05	1
d-N-EtFOSA-M	67		10 - 150	10/19/22 12:15	10/31/22 02:05	1
d7-N-MeFOSE-M	63		10 - 150	10/19/22 12:15	10/31/22 02:05	1
d9-N-EtFOSE-M	58		10 - 150	10/19/22 12:15	10/31/22 02:05	1
M2-4:2 FTS	78		25 - 150	10/19/22 12:15	10/31/22 02:05	1
M2-6:2 FTS	90		25 - 150	10/19/22 12:15	10/31/22 02:05	1
13C3 HFPO-DA	89		25 - 150	10/19/22 12:15	10/31/22 02:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>8:2 FTS</b>	<b>340</b>		9.4	2.2	ng/L		10/19/22 12:15	11/01/22 03:19	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
M2-8:2 FTS	76		25 - 150	10/19/22 12:15	11/01/22 03:19	5			

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-06-202210**

**Lab Sample ID: 320-93224-48**

Date Collected: 10/11/22 13:23

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>5.2</b>		4.6	2.2	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorotridecanoic acid (PFTTrDA)	<1.2		1.8	1.2	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/19/22 12:15	10/31/22 02:15	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>1.1 J</b>		1.8	0.18	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 02:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/19/22 12:15	10/31/22 02:15	1
<b>Perfluorooctanesulfonamide (FOSA)</b>	<b>1.3 J</b>		1.8	0.90	ng/L		10/19/22 12:15	10/31/22 02:15	1
NEtFOSA	<0.79		1.8	0.79	ng/L		10/19/22 12:15	10/31/22 02:15	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/19/22 12:15	10/31/22 02:15	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		10/19/22 12:15	10/31/22 02:15	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		10/19/22 12:15	10/31/22 02:15	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/19/22 12:15	10/31/22 02:15	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/19/22 12:15	10/31/22 02:15	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 02:15	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/19/22 12:15	10/31/22 02:15	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/19/22 12:15	10/31/22 02:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		10/19/22 12:15	10/31/22 02:15	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/19/22 12:15	10/31/22 02:15	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 02:15	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 02:15	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	99		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C5 PFPeA	86		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C2 PFHxA	83		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C4 PFHpA	87		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C4 PFOA	94		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C5 PFNA	96		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C2 PFDA	95		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C2 PFUnA	73		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C2 PFDoA	77		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C2 PFTeDA	82		25 - 150				10/19/22 12:15	10/31/22 02:15	1
13C3 PFBS	72		25 - 150				10/19/22 12:15	10/31/22 02:15	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-06-202210**

**Lab Sample ID: 320-93224-48**

**Date Collected: 10/11/22 13:23**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	86		25 - 150	10/19/22 12:15	10/31/22 02:15	1
13C4 PFOS	92		25 - 150	10/19/22 12:15	10/31/22 02:15	1
13C8 FOSA	86		10 - 150	10/19/22 12:15	10/31/22 02:15	1
d3-NMeFOSAA	72		25 - 150	10/19/22 12:15	10/31/22 02:15	1
d5-NEtFOSAA	72		25 - 150	10/19/22 12:15	10/31/22 02:15	1
d-N-MeFOSA-M	71		10 - 150	10/19/22 12:15	10/31/22 02:15	1
d-N-EtFOSA-M	66		10 - 150	10/19/22 12:15	10/31/22 02:15	1
d7-N-MeFOSE-M	72		10 - 150	10/19/22 12:15	10/31/22 02:15	1
d9-N-EtFOSE-M	61		10 - 150	10/19/22 12:15	10/31/22 02:15	1
M2-4:2 FTS	78		25 - 150	10/19/22 12:15	10/31/22 02:15	1
M2-6:2 FTS	86		25 - 150	10/19/22 12:15	10/31/22 02:15	1
M2-8:2 FTS	71		25 - 150	10/19/22 12:15	10/31/22 02:15	1
13C3 HFPO-DA	80		25 - 150	10/19/22 12:15	10/31/22 02:15	1

**Client Sample ID: MW-07-202210**

**Lab Sample ID: 320-93224-49**

**Date Collected: 10/11/22 12:07**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluoroheptanoic acid (PFHpA)	<0.24		2.0	0.24	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorooctanoic acid (PFOA)	<0.83		2.0	0.83	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorononanoic acid (PFNA)	<0.26		2.0	0.26	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		2.0	0.71	ng/L		10/19/22 12:15	10/31/22 02:25	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>8.8</b>		2.0	0.20	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		2.0	0.29	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		10/19/22 12:15	10/31/22 02:25	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/19/22 12:15	10/31/22 02:25	1
NEtFOSA	<0.85		2.0	0.85	ng/L		10/19/22 12:15	10/31/22 02:25	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/19/22 12:15	10/31/22 02:25	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		10/19/22 12:15	10/31/22 02:25	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		10/19/22 12:15	10/31/22 02:25	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/19/22 12:15	10/31/22 02:25	1
NEtFOSE	<0.83		2.0	0.83	ng/L		10/19/22 12:15	10/31/22 02:25	1
4:2 FTS	<0.23		2.0	0.23	ng/L		10/19/22 12:15	10/31/22 02:25	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-07-202210**

**Lab Sample ID: 320-93224-49**

**Date Collected: 10/11/22 12:07**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	<2.4		4.9	2.4	ng/L		10/19/22 12:15	10/31/22 02:25	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/19/22 12:15	10/31/22 02:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		2.0	0.39	ng/L		10/19/22 12:15	10/31/22 02:25	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/19/22 12:15	10/31/22 02:25	1
9CI-PF3ONS	<0.23		2.0	0.23	ng/L		10/19/22 12:15	10/31/22 02:25	1
11CI-PF3OUdS	<0.31		2.0	0.31	ng/L		10/19/22 12:15	10/31/22 02:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C5 PFPeA	93		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C2 PFHxA	83		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C4 PFHpA	89		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C4 PFOA	94		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C5 PFNA	98		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C2 PFDA	93		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C2 PFUnA	74		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C2 PFDoA	75		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C2 PFTeDA	82		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C3 PFBS	76		25 - 150	10/19/22 12:15	10/31/22 02:25	1
18O2 PFHxS	85		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C4 PFOS	90		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C8 FOSA	90		10 - 150	10/19/22 12:15	10/31/22 02:25	1
d3-NMeFOSAA	67		25 - 150	10/19/22 12:15	10/31/22 02:25	1
d5-NEtFOSAA	72		25 - 150	10/19/22 12:15	10/31/22 02:25	1
d-N-MeFOSA-M	75		10 - 150	10/19/22 12:15	10/31/22 02:25	1
d-N-EtFOSA-M	73		10 - 150	10/19/22 12:15	10/31/22 02:25	1
d7-N-MeFOSE-M	63		10 - 150	10/19/22 12:15	10/31/22 02:25	1
d9-N-EtFOSE-M	60		10 - 150	10/19/22 12:15	10/31/22 02:25	1
M2-4:2 FTS	74		25 - 150	10/19/22 12:15	10/31/22 02:25	1
M2-6:2 FTS	84		25 - 150	10/19/22 12:15	10/31/22 02:25	1
M2-8:2 FTS	70		25 - 150	10/19/22 12:15	10/31/22 02:25	1
13C3 HFPO-DA	85		25 - 150	10/19/22 12:15	10/31/22 02:25	1

**Client Sample ID: PZ-01-202210**

**Lab Sample ID: 320-93224-50**

**Date Collected: 10/12/22 10:05**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorotridecanoic acid (PFTTrDA)	<1.2		1.8	1.2	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		10/19/22 12:15	10/31/22 02:35	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: PZ-01-202210**

**Lab Sample ID: 320-93224-50**

Date Collected: 10/12/22 10:05

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 02:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		10/19/22 12:15	10/31/22 02:35	1
<b>Perfluorooctanesulfonamide (FOSA)</b>	<b>1.1</b>	<b>J</b>	1.8	0.89	ng/L		10/19/22 12:15	10/31/22 02:35	1
NEtFOSA	<0.79		1.8	0.79	ng/L		10/19/22 12:15	10/31/22 02:35	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/19/22 12:15	10/31/22 02:35	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		10/19/22 12:15	10/31/22 02:35	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		10/19/22 12:15	10/31/22 02:35	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/19/22 12:15	10/31/22 02:35	1
NEtFOSE	<0.77		1.8	0.77	ng/L		10/19/22 12:15	10/31/22 02:35	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 02:35	1
6:2 FTS	<2.3		4.5	2.3	ng/L		10/19/22 12:15	10/31/22 02:35	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/19/22 12:15	10/31/22 02:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		10/19/22 12:15	10/31/22 02:35	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		10/19/22 12:15	10/31/22 02:35	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 02:35	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 02:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C5 PFPeA	91		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C2 PFHxA	76		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C4 PFHpA	84		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C4 PFOA	90		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C5 PFNA	93		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C2 PFDA	100		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C2 PFUnA	78		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C2 PFDoA	72		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C2 PFTeDA	79		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C3 PFBS	72		25 - 150	10/19/22 12:15	10/31/22 02:35	1
18O2 PFHxS	81		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C4 PFOS	84		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C8 FOSA	86		10 - 150	10/19/22 12:15	10/31/22 02:35	1
d3-NMeFOSAA	66		25 - 150	10/19/22 12:15	10/31/22 02:35	1
d5-NEtFOSAA	69		25 - 150	10/19/22 12:15	10/31/22 02:35	1
d-N-MeFOSA-M	75		10 - 150	10/19/22 12:15	10/31/22 02:35	1
d-N-EtFOSA-M	70		10 - 150	10/19/22 12:15	10/31/22 02:35	1
d7-N-MeFOSE-M	59		10 - 150	10/19/22 12:15	10/31/22 02:35	1
d9-N-EtFOSE-M	61		10 - 150	10/19/22 12:15	10/31/22 02:35	1
M2-4:2 FTS	74		25 - 150	10/19/22 12:15	10/31/22 02:35	1
M2-6:2 FTS	85		25 - 150	10/19/22 12:15	10/31/22 02:35	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: PZ-01-202210**

**Lab Sample ID: 320-93224-50**

Date Collected: 10/12/22 10:05

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	72		25 - 150	10/19/22 12:15	10/31/22 02:35	1
13C3 HFPO-DA	86		25 - 150	10/19/22 12:15	10/31/22 02:35	1

**Client Sample ID: EB-06-202210**

**Lab Sample ID: 320-93224-51**

Date Collected: 10/12/22 14:05

Matrix: Water

Date Received: 10/14/22 14:20

**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		10/19/22 12:15	10/31/22 02:46	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorotridecanoic acid (PFTTrDA)	<1.2		1.8	1.2	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/19/22 12:15	10/31/22 02:46	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/19/22 12:15	10/31/22 02:46	1
NEtFOSA	<0.80		1.8	0.80	ng/L		10/19/22 12:15	10/31/22 02:46	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/19/22 12:15	10/31/22 02:46	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		10/19/22 12:15	10/31/22 02:46	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		10/19/22 12:15	10/31/22 02:46	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/19/22 12:15	10/31/22 02:46	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/19/22 12:15	10/31/22 02:46	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 02:46	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/19/22 12:15	10/31/22 02:46	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/19/22 12:15	10/31/22 02:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		10/19/22 12:15	10/31/22 02:46	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/19/22 12:15	10/31/22 02:46	1
9CI-PF3ONS	<0.22		1.8	0.22	ng/L		10/19/22 12:15	10/31/22 02:46	1
11CI-PF3OUdS	<0.29		1.8	0.29	ng/L		10/19/22 12:15	10/31/22 02:46	1

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C5 PFPeA	90		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C2 PFHxA	82		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C4 PFHpA	88		25 - 150	10/19/22 12:15	10/31/22 02:46	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: EB-06-202210**

**Lab Sample ID: 320-93224-51**

Date Collected: 10/12/22 14:05

Matrix: Water

Date Received: 10/14/22 14:20

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	94		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C5 PFNA	95		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C2 PFDA	92		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C2 PFUnA	74		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C2 PFDaA	69		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C2 PFTeDA	69		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C3 PFBS	82		25 - 150	10/19/22 12:15	10/31/22 02:46	1
18O2 PFHxS	87		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C4 PFOS	88		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C8 FOSA	75		10 - 150	10/19/22 12:15	10/31/22 02:46	1
d3-NMeFOSAA	72		25 - 150	10/19/22 12:15	10/31/22 02:46	1
d5-NEtFOSAA	69		25 - 150	10/19/22 12:15	10/31/22 02:46	1
d-N-MeFOSA-M	70		10 - 150	10/19/22 12:15	10/31/22 02:46	1
d-N-EtFOSA-M	69		10 - 150	10/19/22 12:15	10/31/22 02:46	1
d7-N-MeFOSE-M	59		10 - 150	10/19/22 12:15	10/31/22 02:46	1
d9-N-EtFOSE-M	62		10 - 150	10/19/22 12:15	10/31/22 02:46	1
M2-4:2 FTS	79		25 - 150	10/19/22 12:15	10/31/22 02:46	1
M2-6:2 FTS	92		25 - 150	10/19/22 12:15	10/31/22 02:46	1
M2-8:2 FTS	103		25 - 150	10/19/22 12:15	10/31/22 02:46	1
13C3 HFPO-DA	81		25 - 150	10/19/22 12:15	10/31/22 02:46	1

**Client Sample ID: DUP-05-202210**

**Lab Sample ID: 320-93224-52**

Date Collected: 10/12/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	89		2.0	0.27	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorodecanoic acid (PFDA)	33		2.0	0.31	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluoroundecanoic acid (PFUnA)	2.2		2.0	1.1	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorododecanoic acid (PFDaA)	0.66	J	2.0	0.55	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	2.0	0.20	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluoropentanesulfonic acid (PFPeS)	0.46	J	2.0	0.30	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorohexanesulfonic acid (PFHxS)	4.9		2.0	0.57	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorooctanesulfonic acid (PFOS)	29		2.0	0.54	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		10/19/22 12:15	10/31/22 03:26	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		10/19/22 12:15	10/31/22 03:26	1
NEtFOSA	<0.86		2.0	0.86	ng/L		10/19/22 12:15	10/31/22 03:26	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 12:15	10/31/22 03:26	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: DUP-05-202210**

**Lab Sample ID: 320-93224-52**

Date Collected: 10/12/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 12:15	10/31/22 03:26	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 12:15	10/31/22 03:26	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 12:15	10/31/22 03:26	1
NEtFOSE	<0.84		2.0	0.84	ng/L		10/19/22 12:15	10/31/22 03:26	1
<b>4:2 FTS</b>	<b>67</b>		2.0	0.24	ng/L		10/19/22 12:15	10/31/22 03:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 12:15	10/31/22 03:26	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 12:15	10/31/22 03:26	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 12:15	10/31/22 03:26	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 12:15	10/31/22 03:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFNA	109		25 - 150				10/19/22 12:15	10/31/22 03:26	1
13C2 PFDA	95		25 - 150				10/19/22 12:15	10/31/22 03:26	1
13C2 PFUnA	88		25 - 150				10/19/22 12:15	10/31/22 03:26	1
13C2 PFDoA	93		25 - 150				10/19/22 12:15	10/31/22 03:26	1
13C2 PFTeDA	107		25 - 150				10/19/22 12:15	10/31/22 03:26	1
13C3 PFBS	90		25 - 150				10/19/22 12:15	10/31/22 03:26	1
18O2 PFHxS	97		25 - 150				10/19/22 12:15	10/31/22 03:26	1
13C4 PFOS	98		25 - 150				10/19/22 12:15	10/31/22 03:26	1
13C8 FOSA	87		10 - 150				10/19/22 12:15	10/31/22 03:26	1
d3-NMeFOSAA	86		25 - 150				10/19/22 12:15	10/31/22 03:26	1
d5-NEtFOSAA	86		25 - 150				10/19/22 12:15	10/31/22 03:26	1
d-N-MeFOSA-M	98		10 - 150				10/19/22 12:15	10/31/22 03:26	1
d-N-EtFOSA-M	92		10 - 150				10/19/22 12:15	10/31/22 03:26	1
d7-N-MeFOSE-M	81		10 - 150				10/19/22 12:15	10/31/22 03:26	1
d9-N-EtFOSE-M	80		10 - 150				10/19/22 12:15	10/31/22 03:26	1
M2-4:2 FTS	79		25 - 150				10/19/22 12:15	10/31/22 03:26	1
13C3 HFPO-DA	105		25 - 150				10/19/22 12:15	10/31/22 03:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	510		250	120	ng/L		10/19/22 12:15	11/01/22 04:00	50
Perfluoropentanoic acid (PFPeA)	2500		99	24	ng/L		10/19/22 12:15	11/01/22 04:00	50
Perfluorohexanoic acid (PFHxA)	1800		99	29	ng/L		10/19/22 12:15	11/01/22 04:00	50
Perfluoroheptanoic acid (PFHpA)	920		99	12	ng/L		10/19/22 12:15	11/01/22 04:00	50
Perfluorooctanoic acid (PFOA)	1300		99	42	ng/L		10/19/22 12:15	11/01/22 04:00	50
<b>6:2 FTS</b>	<b>6900</b>		250	120	ng/L		10/19/22 12:15	11/01/22 04:00	50
<b>8:2 FTS</b>	<b>3100</b>		99	23	ng/L		10/19/22 12:15	11/01/22 04:00	50
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150				10/19/22 12:15	11/01/22 04:00	50
13C5 PFPeA	80		25 - 150				10/19/22 12:15	11/01/22 04:00	50
13C2 PFHxA	86		25 - 150				10/19/22 12:15	11/01/22 04:00	50
13C4 PFHpA	83		25 - 150				10/19/22 12:15	11/01/22 04:00	50
13C4 PFOA	92		25 - 150				10/19/22 12:15	11/01/22 04:00	50
M2-6:2 FTS	141		25 - 150				10/19/22 12:15	11/01/22 04:00	50
M2-8:2 FTS	120		25 - 150				10/19/22 12:15	11/01/22 04:00	50

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# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

## 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)
320-93224-1	MP-01-(277-293)-202210	83	93	96	96	99	109	98	94
320-93224-2	MP-01-(253-274)-202210	91	88	94	98	98	106	99	106
320-93224-3	MP-01-(223-250)-202210	91	90	95	99	98	103	103	100
320-93224-4	MP-01-(198-220)-202210	90	94	89	91	91	98	100	98
320-93224-4 - DL	MP-01-(198-220)-202210								
320-93224-5 - DL	MP-01-(155-195)-202210		89	92	103	85			
320-93224-5	MP-01-(155-195)-202210	131					159 *5+	152 *5+	160 *5+
320-93224-6 - DL	MP-01-(121-152)-202210		104	96	101	99			
320-93224-6	MP-01-(121-152)-202210	147					176 *5+	184 *5+	185 *5+
320-93224-7	MP-01-(091-118)-202210	95			105	94	110	106	108
320-93224-7 - DL	MP-01-(091-118)-202210		98	94					
320-93224-8	MP-01-(051-088)-202210						112	110	110
320-93224-8 - DL	MP-01-(051-088)-202210	91	89	87	93	91			
320-93224-9	MP-02-(279-300)-202210	90	93	94	99	99	113	105	104
320-93224-10	MP-02-(253-276)-202210	84	89	90	93	93	111	95	106
320-93224-11	MP-02-(223-250)-202210	92	95	95	102	99	110	104	98
320-93224-12	MP-02-(198-220)-202210	104	91	84	87	88	100	92	77
320-93224-12 - DL	MP-02-(198-220)-202210								
320-93224-12 - RA	MP-02-(198-220)-202210								
320-93224-13	MP-02-(153-195)-202210-A	120	98	91	97	97	105	104	87
320-93224-13 - DL	MP-02-(153-195)-202210-A								
320-93224-13 - RA	MP-02-(153-195)-202210-A								
320-93224-14	MP-02-(153-195)-202210-B	112	94	92	93	91	105	98	88
320-93224-14 - DL	MP-02-(153-195)-202210-B								
320-93224-14 - RA	MP-02-(153-195)-202210-B								
320-93224-15	MP-02-(153-195)-202210-C	107	99	94	97	95	112	105	90
320-93224-15 - DL	MP-02-(153-195)-202210-C								
320-93224-15 - RA	MP-02-(153-195)-202210-C								
320-93224-16	MP-03-(280-300)-202210	93	96	97	100	95	122	97	101
320-93224-17	MP-03-(245-277)-202210	93	100	97	100	97	100	94	102
320-93224-18	MP-03-(220-242)-202210	64	71	67	69	66	71	76	74
320-93224-19	MP-03-(190-217)-202210	94	104	95	96	98	97	98	102
320-93224-20	MP-03-(160-187)-202210	111	94	89	87	95	99	97	78
320-93224-20 - DL	MP-03-(160-187)-202210								
320-93224-20 - RA	MP-03-(160-187)-202210								
320-93224-21	MP-03-(120-157)-202210	95	96	97	100	98	116	104	104
320-93224-22	MP-03-(083-117)-202210	90	98	94	96	95	93	96	96
320-93224-23	MP-03-(046-080)-202210	98	96	95	100	99	110	108	105
320-93224-24	MP-04-(275-291)-202210	90	90	89	88	92	95	92	100
320-93224-25	MP-04-(245-272)-202210	100	91	98	85	91	101	94	105
320-93224-26	MP-04-(220-242)-202210	99	87	78	85	87	97	91	78
320-93224-27	MP-04-(195-217)-202210	109	106	91	88	95	93	101	93
320-93224-28	MP-04-(155-192)-202210	99	88	79	83	87	94	93	80
320-93224-28 - DL	MP-04-(155-192)-202210								
320-93224-29	MP-04-(115-152)-202210	124			107	93	123	117	101
320-93224-29 - DL	MP-04-(115-152)-202210		99	110					
320-93224-30	MP-04-(080-112)-202210	119			118	100	115	113	91
320-93224-30 - DL	MP-04-(080-112)-202210		95	101					
320-93224-31	MP-04-(048-077)-202210	113	100	94	92	100	123	112	88

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# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

## 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)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-93224-32	MP-05-(SWL-065)-202210	107	99	100	93	97	113	104	86
320-93224-32 - RA	MP-05-(SWL-065)-202210								
320-93224-33	DUP-01-202210	101	92	82	87	89	100	106	81
320-93224-33 - RA	DUP-01-202210								
320-93224-34	DUP-02-202210	142			118	96	130	124	99
320-93224-34 - DL	DUP-02-202210		99	106					
320-93224-34 - RA	DUP-02-202210								
320-93224-35	DUP-03-202210	105	93	84	84	89	101	96	83
320-93224-35 - DL	DUP-03-202210								
320-93224-36	DUP-04-202210	72	74	58	54	59	67	65	61
320-93224-36 - DL	DUP-04-202210								
320-93224-37	MP-01-EB-202210	98	91	86	92	85	98	92	81
320-93224-38	MP-02-EB-202210	103	93	91	91	107	95	92	79
320-93224-39	MP-03-EB-202210	103	88	78	87	90	100	92	81
320-93224-40	MP-04-EB-202210	102	96	81	86	92	96	100	86
320-93224-41	MP-05-EB-202210	99	96	84	86	88	93	91	87
320-93224-42	FB-01-202210	110	101	91	94	97	106	98	82
320-93224-43	MW-01-202210	108				89	104	113	93
320-93224-43 - DL	MW-01-202210		98	86	85				
320-93224-44	MW-02-202210	100			88	99	99	92	76
320-93224-44 - DL	MW-02-202210		95	88					
320-93224-45	MW-03-202210	97	82	80	79	84	96	87	77
320-93224-46	MW-04-202210						121	103	98
320-93224-46 - DL	MW-04-202210	103	108	92	86	85			
320-93224-47	MW-05-202210	111	90	86	86	92	95	92	77
320-93224-47 - DL	MW-05-202210								
320-93224-48	MW-06-202210	99	86	83	87	94	96	95	73
320-93224-49	MW-07-202210	102	93	83	89	94	98	93	74
320-93224-50	PZ-01-202210	102	91	76	84	90	93	100	78
320-93224-51	EB-06-202210	101	90	82	88	94	95	92	74
320-93224-52	DUP-05-202210						109	95	88
320-93224-52 - DL	DUP-05-202210	100	80	86	83	92			
LCS 320-625548/2-A	Lab Control Sample	97	99	99	101	98	101	103	101
LCS 320-625842/2-A	Lab Control Sample	95	94	92	91	96	91	89	93
LCS 320-625844/2-A	Lab Control Sample	111	105	85	94	96	103	98	86
LCS 320-625994/2-A	Lab Control Sample	108	95	102	88	92	94	92	76
LCSD 320-625548/3-A	Lab Control Sample Dup	97	97	98	103	95	100	105	104
LCSD 320-625842/3-A	Lab Control Sample Dup	97	100	97	93	94	91	92	91
LCSD 320-625844/3-A	Lab Control Sample Dup	108	97	86	94	97	100	93	78
LCSD 320-625994/3-A	Lab Control Sample Dup	100	86	84	83	97	93	88	75
MB 320-625548/1-A	Method Blank	96	98	93	99	99	98	102	97
MB 320-625842/1-A	Method Blank	98	107	102	97	96	95	101	101
MB 320-625844/1-A	Method Blank	93	80	69	77	78	87	79	66
MB 320-625994/1-A	Method Blank	107	98	84	85	93	96	91	75

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)
320-93224-1	MP-01-(277-293)-202210	95	97	90	98	99	101	100	106
320-93224-2	MP-01-(253-274)-202210	113	109	93	98	96	104	107	114
320-93224-3	MP-01-(223-250)-202210	108	109	90	95	99	99	100	103

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# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

## 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)							
		PFD <sub>oA</sub> (25-150)	PFT <sub>DA</sub> (25-150)	C3PF <sub>B</sub> (25-150)	PFH <sub>xS</sub> (25-150)	PF <sub>OS</sub> (25-150)	PF <sub>OSA</sub> (10-150)	d3NM <sub>FOS</sub> (25-150)	d5NE <sub>FOS</sub> (25-150)
320-93224-4	MP-01-(198-220)-202210	105	109	87	93	96	95	98	114
320-93224-4 - DL	MP-01-(198-220)-202210								
320-93224-5 - DL	MP-01-(155-195)-202210								
320-93224-5	MP-01-(155-195)-202210	149	154 *5+	128	135	146	143	137	182 *5+
320-93224-6 - DL	MP-01-(121-152)-202210								
320-93224-6	MP-01-(121-152)-202210	166 *5+	173 *5+	140	156 *5+	162 *5+	166 *5+	144	210 *5+
320-93224-7	MP-01-(091-118)-202210	109	102	99	105	101	113	113	116
320-93224-7 - DL	MP-01-(091-118)-202210								
320-93224-8	MP-01-(051-088)-202210	120	133	99	106	107	110	124	125
320-93224-8 - DL	MP-01-(051-088)-202210								
320-93224-9	MP-02-(279-300)-202210	110	110	91	98	102	101	106	114
320-93224-10	MP-02-(253-276)-202210	93	98	87	94	98	93	81	119
320-93224-11	MP-02-(223-250)-202210	80	77	93	95	94	98	73	102
320-93224-12	MP-02-(198-220)-202210	85	86	78	82	90	89	77	85
320-93224-12 - DL	MP-02-(198-220)-202210								
320-93224-12 - RA	MP-02-(198-220)-202210					97			
320-93224-13	MP-02-(153-195)-202210-A	87	82	84	98	101	101	83	83
320-93224-13 - DL	MP-02-(153-195)-202210-A								
320-93224-13 - RA	MP-02-(153-195)-202210-A					99			
320-93224-14	MP-02-(153-195)-202210-B	82	82	81	97	98	98	75	79
320-93224-14 - DL	MP-02-(153-195)-202210-B								
320-93224-14 - RA	MP-02-(153-195)-202210-B					103			
320-93224-15	MP-02-(153-195)-202210-C	82	75	89	91	98	95	70	76
320-93224-15 - DL	MP-02-(153-195)-202210-C								
320-93224-15 - RA	MP-02-(153-195)-202210-C					104			
320-93224-16	MP-03-(280-300)-202210	103	94	95	102	104	96	83	94
320-93224-17	MP-03-(245-277)-202210	102	97	95	103	101	96	88	88
320-93224-18	MP-03-(220-242)-202210	61	58	72	70	71	71	49	67
320-93224-19	MP-03-(190-217)-202210	110	104	103	100	102	105	79	83
320-93224-20	MP-03-(160-187)-202210	85	84	84	87	95	94	82	83
320-93224-20 - DL	MP-03-(160-187)-202210								
320-93224-20 - RA	MP-03-(160-187)-202210					104			
320-93224-21	MP-03-(120-157)-202210	91	93	102	94	101	108	88	108
320-93224-22	MP-03-(083-117)-202210	99	97	95	97	102	100	76	83
320-93224-23	MP-03-(046-080)-202210	91	89	96	97	103	114	88	105
320-93224-24	MP-04-(275-291)-202210	102	99	94	96	101	95	80	93
320-93224-25	MP-04-(245-272)-202210	69	81	74	84	91	85	73	75
320-93224-26	MP-04-(220-242)-202210	70	75	76	85	88	90	70	78
320-93224-27	MP-04-(195-217)-202210	78	83	82	96	98	95	81	106
320-93224-28	MP-04-(155-192)-202210	74	85	86	84	85	87	73	83
320-93224-28 - DL	MP-04-(155-192)-202210								
320-93224-29	MP-04-(115-152)-202210	99	108	96	106	118	111	96	101
320-93224-29 - DL	MP-04-(115-152)-202210								
320-93224-30	MP-04-(080-112)-202210	93	97	87	100	104	103	94	94
320-93224-30 - DL	MP-04-(080-112)-202210								
320-93224-31	MP-04-(048-077)-202210	87	94	82	96	96	96	88	92
320-93224-32	MP-05-(SWL-065)-202210	62	64	81	92	99	93	47	68
320-93224-32 - RA	MP-05-(SWL-065)-202210					94			
320-93224-33	DUP-01-202210	61	64	74	84	94	92	45	63
320-93224-33 - RA	DUP-01-202210					92			

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# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

## 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)							
		PFD <sub>o</sub> A (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-93224-34	DUP-02-202210	101	113	106	118	122	115	104	97
320-93224-34 - DL	DUP-02-202210								
320-93224-34 - RA	DUP-02-202210					117			
320-93224-35	DUP-03-202210	72	82	76	91	94	91	88	76
320-93224-35 - DL	DUP-03-202210								
320-93224-36	DUP-04-202210	40	42	53	60	61	60	33	51
320-93224-36 - DL	DUP-04-202210								
320-93224-37	MP-01-EB-202210	76	86	76	83	84	84	78	83
320-93224-38	MP-02-EB-202210	88	82	72	87	90	88	77	80
320-93224-39	MP-03-EB-202210	76	79	77	88	88	85	68	71
320-93224-40	MP-04-EB-202210	71	78	76	84	89	81	70	76
320-93224-41	MP-05-EB-202210	77	78	73	85	88	83	72	75
320-93224-42	FB-01-202210	76	78	83	90	93	82	72	73
320-93224-43	MW-01-202210	89	93	86	90	95	101	79	88
320-93224-43 - DL	MW-01-202210								
320-93224-44	MW-02-202210	73	85	76	84	91	90	71	72
320-93224-44 - DL	MW-02-202210								
320-93224-45	MW-03-202210	76	81	73	83	90	87	69	72
320-93224-46	MW-04-202210	95	106	104	109	114	98	89	89
320-93224-46 - DL	MW-04-202210								
320-93224-47	MW-05-202210	74	81	78	92	88	88	70	68
320-93224-47 - DL	MW-05-202210								
320-93224-48	MW-06-202210	77	82	72	86	92	86	72	72
320-93224-49	MW-07-202210	75	82	76	85	90	90	67	72
320-93224-50	PZ-01-202210	72	79	72	81	84	86	66	69
320-93224-51	EB-06-202210	69	69	82	87	88	75	72	69
320-93224-52	DUP-05-202210	93	107	90	97	98	87	86	86
320-93224-52 - DL	DUP-05-202210								
LCS 320-625548/2-A	Lab Control Sample	109	115	93	99	96	101	106	112
LCS 320-625842/2-A	Lab Control Sample	94	93	95	96	98	91	72	79
LCS 320-625844/2-A	Lab Control Sample	92	90	81	98	100	98	86	85
LCS 320-625994/2-A	Lab Control Sample	70	76	84	88	88	82	73	70
LCSD 320-625548/3-A	Lab Control Sample Dup	113	120	96	101	101	103	105	115
LCSD 320-625842/3-A	Lab Control Sample Dup	99	95	102	102	98	94	74	79
LCSD 320-625844/3-A	Lab Control Sample Dup	74	73	78	87	93	84	75	74
LCSD 320-625994/3-A	Lab Control Sample Dup	75	76	74	85	87	83	71	72
MB 320-625548/1-A	Method Blank	106	112	95	100	96	98	106	112
MB 320-625842/1-A	Method Blank	105	106	110	107	108	104	77	88
MB 320-625844/1-A	Method Blank	67	78	67	81	80	80	69	67
MB 320-625994/1-A	Method Blank	73	78	79	89	89	89	73	75

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)
320-93224-1	MP-01-(277-293)-202210	90	89	82	80	100	101	149	99
320-93224-2	MP-01-(253-274)-202210	73	92	86	94	96	96	214 *5+	99
320-93224-3	MP-01-(223-250)-202210	88	95	86	89	94	108	176 *5+	104
320-93224-4	MP-01-(198-220)-202210	91	90	88	85	93		161 *5+	98
320-93224-4 - DL	MP-01-(198-220)-202210						93		
320-93224-5 - DL	MP-01-(155-195)-202210						208 *5+	134	
320-93224-5	MP-01-(155-195)-202210	79	114	87	131	128			143

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# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

## 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)
320-93224-6 - DL	MP-01-(121-152)-202210						251 *5+	160 *5+	
320-93224-6	MP-01-(121-152)-202210	85	130	93	150	155 *5+			162 *5+
320-93224-7	MP-01-(091-118)-202210	109	105	87	87	105			108
320-93224-7 - DL	MP-01-(091-118)-202210						140	131	
320-93224-8	MP-01-(051-088)-202210	107	110	105	106	99			117
320-93224-8 - DL	MP-01-(051-088)-202210						163 *5+	146	
320-93224-9	MP-02-(279-300)-202210	93	97	89	94	95	102	187 *5+	105
320-93224-10	MP-02-(253-276)-202210	47	73	53	87	96	103	253 *5+	99
320-93224-11	MP-02-(223-250)-202210	51	79	50	91	83	97	215 *5+	92
320-93224-12	MP-02-(198-220)-202210	77	69	68	64	77		79	80
320-93224-12 - DL	MP-02-(198-220)-202210						78		
320-93224-12 - RA	MP-02-(198-220)-202210								
320-93224-13	MP-02-(153-195)-202210-A	73	73	68	73	88		100	89
320-93224-13 - DL	MP-02-(153-195)-202210-A						88		
320-93224-13 - RA	MP-02-(153-195)-202210-A								
320-93224-14	MP-02-(153-195)-202210-B	66	73	60	79	88		100	87
320-93224-14 - DL	MP-02-(153-195)-202210-B						100		
320-93224-14 - RA	MP-02-(153-195)-202210-B								
320-93224-15	MP-02-(153-195)-202210-C	67	68	64	63	92		97	88
320-93224-15 - DL	MP-02-(153-195)-202210-C						88		
320-93224-15 - RA	MP-02-(153-195)-202210-C								
320-93224-16	MP-03-(280-300)-202210	71	86	75	103	82	80	161 *5+	86
320-93224-17	MP-03-(245-277)-202210	82	87	84	101	81	83	124	92
320-93224-18	MP-03-(220-242)-202210	36	52	36	69	58	65	144	62
320-93224-19	MP-03-(190-217)-202210	91	90	91	101	77	83	112	89
320-93224-20	MP-03-(160-187)-202210	82	79	70	73	85		97	84
320-93224-20 - DL	MP-03-(160-187)-202210						90		
320-93224-20 - RA	MP-03-(160-187)-202210								
320-93224-21	MP-03-(120-157)-202210	73	92	71	94	94	86	195 *5+	94
320-93224-22	MP-03-(083-117)-202210	88	88	92	97	80	85	103	85
320-93224-23	MP-03-(046-080)-202210	73	96	65	100	95	93	215 *5+	91
320-93224-24	MP-04-(275-291)-202210	75	92	78	97	72	77	141	82
320-93224-25	MP-04-(245-272)-202210	69	68	61	64	79	93	113	96
320-93224-26	MP-04-(220-242)-202210	71	65	62	66	77	90	121	78
320-93224-27	MP-04-(195-217)-202210	84	78	66	70	84	95	97	82
320-93224-28	MP-04-(155-192)-202210	70	67	67	69	82		111	76
320-93224-28 - DL	MP-04-(155-192)-202210						101		
320-93224-29	MP-04-(115-152)-202210	98	90	82	90	91		129	96
320-93224-29 - DL	MP-04-(115-152)-202210						116		
320-93224-30	MP-04-(080-112)-202210	84	90	78	103	85		143	107
320-93224-30 - DL	MP-04-(080-112)-202210						73		
320-93224-31	MP-04-(048-077)-202210	82	78	75	84	91	100	119	101
320-93224-32	MP-05-(SWL-065)-202210	40	49	41	73	86	106	150	83
320-93224-32 - RA	MP-05-(SWL-065)-202210								
320-93224-33	DUP-01-202210	37	46	39	62	80	92	144	82
320-93224-33 - RA	DUP-01-202210								
320-93224-34	DUP-02-202210	97	91	84	89	101		115	131
320-93224-34 - DL	DUP-02-202210						107		
320-93224-34 - RA	DUP-02-202210								
320-93224-35	DUP-03-202210	82	71	70	69	82		89	83

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# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

## 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)
320-93224-35 - DL	DUP-03-202210						72		
320-93224-36	DUP-04-202210	29	39	29	42	62		92	55
320-93224-36 - DL	DUP-04-202210						59		
320-93224-37	MP-01-EB-202210	76	72	68	69	78	87	84	88
320-93224-38	MP-02-EB-202210	73	71	66	65	79	90	84	94
320-93224-39	MP-03-EB-202210	81	73	69	64	80	95	87	80
320-93224-40	MP-04-EB-202210	64	65	64	79	91	90	123	79
320-93224-41	MP-05-EB-202210	76	73	79	65	74	84	95	82
320-93224-42	FB-01-202210	69	71	70	62	85	93	83	88
320-93224-43	MW-01-202210	82	78	75	75	88		90	114
320-93224-43 - DL	MW-01-202210						87		
320-93224-44	MW-02-202210	80	77	67	62	73		78	90
320-93224-44 - DL	MW-02-202210						74		
320-93224-45	MW-03-202210	74	69	62	61	74	85	74	77
320-93224-46	MW-04-202210	100	91	84	77	92			110
320-93224-46 - DL	MW-04-202210						166 *5+	140	
320-93224-47	MW-05-202210	72	67	63	58	78	90		89
320-93224-47 - DL	MW-05-202210							76	
320-93224-48	MW-06-202210	71	66	72	61	78	86	71	80
320-93224-49	MW-07-202210	75	73	63	60	74	84	70	85
320-93224-50	PZ-01-202210	75	70	59	61	74	85	72	86
320-93224-51	EB-06-202210	70	69	59	62	79	92	103	81
320-93224-52	DUP-05-202210	98	92	81	80	79			105
320-93224-52 - DL	DUP-05-202210						141	120	
LCS 320-625548/2-A	Lab Control Sample	98	98	101	101	93	99	111	104
LCS 320-625842/2-A	Lab Control Sample	79	81	88	90	77	77	74	83
LCS 320-625844/2-A	Lab Control Sample	82	74	73	82	92	95	90	83
LCS 320-625994/2-A	Lab Control Sample	72	68	76	61	80	87	77	96
LCSD 320-625548/3-A	Lab Control Sample Dup	104	103	106	103	96	99	120	104
LCSD 320-625842/3-A	Lab Control Sample Dup	80	86	93	93	78	85	73	87
LCSD 320-625844/3-A	Lab Control Sample Dup	80	70	67	65	80	93	80	84
LCSD 320-625994/3-A	Lab Control Sample Dup	75	66	66	64	76	86	73	82
MB 320-625548/1-A	Method Blank	99	100	104	101	88	98	129	102
MB 320-625842/1-A	Method Blank	84	86	95	104	82	87	85	88
MB 320-625844/1-A	Method Blank	72	66	64	59	79	81	70	69
MB 320-625994/1-A	Method Blank	66	63	64	61	78	82	79	85

**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

# Isotope Dilution Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

PFOS = 13C4 PFOS  
PFOSA = 13C8 FOSA  
d3NMFOS = d3-NMeFOSAA  
d5NEFOS = d5-NEtFOSAA  
dMeFOSA = d-N-MeFOSA-M  
dEtFOSA = d-N-EtFOSA-M  
NMFm = d7-N-MeFOSE-M  
NEFM = d9-N-EtFOSE-M  
M242FTS = M2-4:2 FTS  
M262FTS = M2-6:2 FTS  
M282FTS = M2-8:2 FTS  
HFPODA = 13C3 HFPO-DA

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: MB 320-625548/1-A**  
**Matrix: Water**  
**Analysis Batch: 626682**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 625548**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/17/22 19:26	10/22/22 20:26	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/17/22 19:26	10/22/22 20:26	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/17/22 19:26	10/22/22 20:26	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/17/22 19:26	10/22/22 20:26	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/17/22 19:26	10/22/22 20:26	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/17/22 19:26	10/22/22 20:26	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/17/22 19:26	10/22/22 20:26	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/17/22 19:26	10/22/22 20:26	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/17/22 19:26	10/22/22 20:26	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/17/22 19:26	10/22/22 20:26	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/17/22 19:26	10/22/22 20:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/17/22 19:26	10/22/22 20:26	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/17/22 19:26	10/22/22 20:26	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/17/22 19:26	10/22/22 20:26	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/17/22 19:26	10/22/22 20:26	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	96		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C5 PFPeA	98		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C2 PFHxA	93		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C4 PFHpA	99		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C4 PFOA	99		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C5 PFNA	98		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C2 PFDA	102		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C2 PFUnA	97		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C2 PFDoA	106		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C2 PFTeDA	112		25 - 150	10/17/22 19:26	10/22/22 20:26	1

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: MB 320-625548/1-A**  
**Matrix: Water**  
**Analysis Batch: 626682**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 625548**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	95		25 - 150	10/17/22 19:26	10/22/22 20:26	1
18O2 PFHxS	100		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C4 PFOS	96		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C8 FOSA	98		10 - 150	10/17/22 19:26	10/22/22 20:26	1
d3-NMeFOSAA	106		25 - 150	10/17/22 19:26	10/22/22 20:26	1
d5-NEtFOSAA	112		25 - 150	10/17/22 19:26	10/22/22 20:26	1
d-N-MeFOSA-M	99		10 - 150	10/17/22 19:26	10/22/22 20:26	1
d-N-EtFOSA-M	100		10 - 150	10/17/22 19:26	10/22/22 20:26	1
d7-N-MeFOSE-M	104		10 - 150	10/17/22 19:26	10/22/22 20:26	1
d9-N-EtFOSE-M	101		10 - 150	10/17/22 19:26	10/22/22 20:26	1
M2-4:2 FTS	88		25 - 150	10/17/22 19:26	10/22/22 20:26	1
M2-6:2 FTS	98		25 - 150	10/17/22 19:26	10/22/22 20:26	1
M2-8:2 FTS	129		25 - 150	10/17/22 19:26	10/22/22 20:26	1
13C3 HFPO-DA	102		25 - 150	10/17/22 19:26	10/22/22 20:26	1

**Lab Sample ID: LCS 320-625548/2-A**  
**Matrix: Water**  
**Analysis Batch: 626682**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625548**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	44.9		ng/L		112	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	41.4		ng/L		104	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.6		ng/L		101	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	42.7		ng/L		107	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	44.5		ng/L		111	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.9		ng/L		105	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	44.6		ng/L		111	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	43.7		ng/L		109	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	42.4		ng/L		106	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	43.3		ng/L		108	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	37.9		ng/L		95	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	38.8		ng/L		109	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.3		ng/L		110	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.9		ng/L		98	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.6		ng/L		112	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	40.5		ng/L		109	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	38.9		ng/L		101	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	39.3		ng/L		102	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	40.9		ng/L		105	60 - 135

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCS 320-625548/2-A**  
**Matrix: Water**  
**Analysis Batch: 626682**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625548**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	44.5		ng/L		111	60 - 135
NEtFOSA	40.0	40.8		ng/L		102	60 - 135
NMeFOSA	40.0	44.5		ng/L		111	60 - 135
NMeFOSAA	40.0	39.7		ng/L		99	60 - 135
NEtFOSAA	40.0	40.0		ng/L		100	60 - 135
NMeFOSE	40.0	41.0		ng/L		103	60 - 135
NEtFOSE	40.0	40.5		ng/L		101	60 - 135
4:2 FTS	37.5	39.1		ng/L		104	60 - 135
6:2 FTS	38.1	38.9		ng/L		102	60 - 135
8:2 FTS	38.4	37.1		ng/L		97	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	44.6		ng/L		118	60 - 135
HFPO-DA (GenX)	40.0	40.2		ng/L		100	60 - 135
9Cl-PF3ONS	37.4	40.5		ng/L		109	60 - 135
11Cl-PF3OUdS	37.8	43.1		ng/L		114	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	97		25 - 150
13C5 PFPeA	99		25 - 150
13C2 PFHxA	99		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	98		25 - 150
13C5 PFNA	101		25 - 150
13C2 PFDA	103		25 - 150
13C2 PFUnA	101		25 - 150
13C2 PFDoA	109		25 - 150
13C2 PFTeDA	115		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	99		25 - 150
13C4 PFOS	96		25 - 150
13C8 FOSA	101		10 - 150
d3-NMeFOSAA	106		25 - 150
d5-NEtFOSAA	112		25 - 150
d-N-MeFOSA-M	98		10 - 150
d-N-EtFOSA-M	98		10 - 150
d7-N-MeFOSE-M	101		10 - 150
d9-N-EtFOSE-M	101		10 - 150
M2-4:2 FTS	93		25 - 150
M2-6:2 FTS	99		25 - 150
M2-8:2 FTS	111		25 - 150
13C3 HFPO-DA	104		25 - 150

**Lab Sample ID: LCSD 320-625548/3-A**  
**Matrix: Water**  
**Analysis Batch: 626682**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625548**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	40.0	42.6		ng/L		106	60 - 135	5	30

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCSD 320-625548/3-A**  
**Matrix: Water**  
**Analysis Batch: 626682**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625548**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	40.0	42.2		ng/L		106	60 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	42.0		ng/L		105	60 - 135	4	30
Perfluoroheptanoic acid (PFHpA)	40.0	41.5		ng/L		104	60 - 135	3	30
Perfluorooctanoic acid (PFOA)	40.0	46.3		ng/L		116	60 - 135	4	30
Perfluorononanoic acid (PFNA)	40.0	43.5		ng/L		109	60 - 135	4	30
Perfluorodecanoic acid (PFDA)	40.0	43.5		ng/L		109	60 - 135	2	30
Perfluoroundecanoic acid (PFUnA)	40.0	44.3		ng/L		111	60 - 135	1	30
Perfluorododecanoic acid (PFDoA)	40.0	41.4		ng/L		104	60 - 135	2	30
Perfluorotridecanoic acid (PFTrDA)	40.0	43.8		ng/L		109	60 - 135	1	30
Perfluorotetradecanoic acid (PFTeA)	40.0	39.5		ng/L		99	60 - 135	4	30
Perfluorobutanesulfonic acid (PFBS)	35.5	39.1		ng/L		110	60 - 135	1	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.2		ng/L		110	60 - 135	0	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.5		ng/L		97	60 - 135	1	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	41.3		ng/L		108	60 - 135	3	30
Perfluorooctanesulfonic acid (PFOS)	37.2	39.6		ng/L		106	60 - 135	2	30
Perfluorononanesulfonic acid (PFNS)	38.5	39.0		ng/L		101	60 - 135	0	30
Perfluorodecanesulfonic acid (PFDS)	38.6	38.8		ng/L		101	60 - 135	1	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	40.6		ng/L		105	60 - 135	1	30
Perfluorooctanesulfonamide (FOSA)	40.0	43.5		ng/L		109	60 - 135	2	30
NEtFOSA	40.0	40.1		ng/L		100	60 - 135	2	30
NMeFOSA	40.0	42.7		ng/L		107	60 - 135	4	30
NMeFOSAA	40.0	40.8		ng/L		102	60 - 135	3	30
NEtFOSAA	40.0	40.2		ng/L		100	60 - 135	0	30
NMeFOSE	40.0	39.6		ng/L		99	60 - 135	4	30
NEtFOSE	40.0	40.0		ng/L		100	60 - 135	1	30
4:2 FTS	37.5	37.1		ng/L		99	60 - 135	5	30
6:2 FTS	38.1	38.5		ng/L		101	60 - 135	1	30
8:2 FTS	38.4	35.6		ng/L		93	60 - 135	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	42.1		ng/L		112	60 - 135	6	30
HFPO-DA (GenX)	40.0	40.5		ng/L		101	60 - 135	1	30
9Cl-PF3ONS	37.4	38.9		ng/L		104	60 - 135	4	30
11Cl-PF3OUdS	37.8	41.9		ng/L		111	60 - 135	3	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	97		25 - 150
13C5 PFPeA	97		25 - 150
13C2 PFHxA	98		25 - 150
13C4 PFHpA	103		25 - 150

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCSD 320-625548/3-A**  
**Matrix: Water**  
**Analysis Batch: 626682**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625548**

<i>Isotope Dilution</i>	<i>LCSD LCSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFOA	95		25 - 150
13C5 PFNA	100		25 - 150
13C2 PFDA	105		25 - 150
13C2 PFUnA	104		25 - 150
13C2 PFDoA	113		25 - 150
13C2 PFTeDA	120		25 - 150
13C3 PFBS	96		25 - 150
18O2 PFHxS	101		25 - 150
13C4 PFOS	101		25 - 150
13C8 FOSA	103		10 - 150
d3-NMeFOSAA	105		25 - 150
d5-NEtFOSAA	115		25 - 150
d-N-MeFOSA-M	104		10 - 150
d-N-EtFOSA-M	103		10 - 150
d7-N-MeFOSE-M	106		10 - 150
d9-N-EtFOSE-M	103		10 - 150
M2-4:2 FTS	96		25 - 150
M2-6:2 FTS	99		25 - 150
M2-8:2 FTS	120		25 - 150
13C3 HFPO-DA	104		25 - 150

**Lab Sample ID: MB 320-625842/1-A**  
**Matrix: Water**  
**Analysis Batch: 630390**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 625842**

<i>Analyte</i>	<i>MB MB</i>		<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/19/22 04:20	11/05/22 01:17	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/19/22 04:20	11/05/22 01:17	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/19/22 04:20	11/05/22 01:17	1

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: MB 320-625842/1-A**  
**Matrix: Water**  
**Analysis Batch: 630390**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 625842**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 04:20	11/05/22 01:17	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 04:20	11/05/22 01:17	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 04:20	11/05/22 01:17	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 04:20	11/05/22 01:17	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/19/22 04:20	11/05/22 01:17	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/05/22 01:17	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/19/22 04:20	11/05/22 01:17	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/19/22 04:20	11/05/22 01:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 04:20	11/05/22 01:17	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 04:20	11/05/22 01:17	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 04:20	11/05/22 01:17	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 04:20	11/05/22 01:17	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C5 PFPeA	107		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C2 PFHxA	102		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C4 PFHpA	97		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C4 PFOA	96		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C5 PFNA	95		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C2 PFDA	101		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C2 PFUnA	101		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C2 PFDoA	105		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C2 PFTeDA	106		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C3 PFBS	110		25 - 150	10/19/22 04:20	11/05/22 01:17	1
18O2 PFHxS	107		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C4 PFOS	108		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C8 FOSA	104		10 - 150	10/19/22 04:20	11/05/22 01:17	1
d3-NMeFOSAA	77		25 - 150	10/19/22 04:20	11/05/22 01:17	1
d5-NEtFOSAA	88		25 - 150	10/19/22 04:20	11/05/22 01:17	1
d-N-MeFOSA-M	84		10 - 150	10/19/22 04:20	11/05/22 01:17	1
d-N-EtFOSA-M	86		10 - 150	10/19/22 04:20	11/05/22 01:17	1
d7-N-MeFOSE-M	95		10 - 150	10/19/22 04:20	11/05/22 01:17	1
d9-N-EtFOSE-M	104		10 - 150	10/19/22 04:20	11/05/22 01:17	1
M2-4:2 FTS	82		25 - 150	10/19/22 04:20	11/05/22 01:17	1
M2-6:2 FTS	87		25 - 150	10/19/22 04:20	11/05/22 01:17	1
M2-8:2 FTS	85		25 - 150	10/19/22 04:20	11/05/22 01:17	1
13C3 HFPO-DA	88		25 - 150	10/19/22 04:20	11/05/22 01:17	1

**Lab Sample ID: LCS 320-625842/2-A**  
**Matrix: Water**  
**Analysis Batch: 630390**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625842**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	41.2		ng/L		103	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.2		ng/L		106	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.0		ng/L		100	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	41.5		ng/L		104	60 - 135

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCS 320-625842/2-A**  
**Matrix: Water**  
**Analysis Batch: 630390**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625842**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	40.0	39.4		ng/L		98	60 - 135
Perfluorononanoic acid (PFNA)	40.0	42.1		ng/L		105	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.1		ng/L		100	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	39.4		ng/L		99	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	42.7		ng/L		107	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	41.4		ng/L		104	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	42.2		ng/L		106	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	36.0		ng/L		101	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	38.9		ng/L		104	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.7		ng/L		101	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.8		ng/L		107	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	38.1		ng/L		103	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	38.5		ng/L		100	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	39.6		ng/L		103	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.5		ng/L		102	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	41.0		ng/L		103	60 - 135
NEtFOSA	40.0	41.1		ng/L		103	60 - 135
NMeFOSA	40.0	41.3		ng/L		103	60 - 135
NMeFOSAA	40.0	43.4		ng/L		108	60 - 135
NEtFOSAA	40.0	41.4		ng/L		104	60 - 135
NMeFOSE	40.0	42.3		ng/L		106	60 - 135
NEtFOSE	40.0	40.7		ng/L		102	60 - 135
4:2 FTS	37.5	38.1		ng/L		102	60 - 135
6:2 FTS	38.1	38.9		ng/L		102	60 - 135
8:2 FTS	38.4	39.9		ng/L		104	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	37.6		ng/L		99	60 - 135
HFPO-DA (GenX)	40.0	38.5		ng/L		96	60 - 135
9Cl-PF3ONS	37.4	34.9		ng/L		93	60 - 135
11Cl-PF3OUdS	37.8	35.5		ng/L		94	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	95		25 - 150
13C5 PFPeA	94		25 - 150
13C2 PFHxA	92		25 - 150
13C4 PFHpA	91		25 - 150
13C4 PFOA	96		25 - 150
13C5 PFNA	91		25 - 150
13C2 PFDA	89		25 - 150

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCS 320-625842/2-A**  
**Matrix: Water**  
**Analysis Batch: 630390**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625842**

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C2 PFUnA	93		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	93		25 - 150
13C3 PFBS	95		25 - 150
18O2 PFHxS	96		25 - 150
13C4 PFOS	98		25 - 150
13C8 FOSA	91		10 - 150
d3-NMeFOSAA	72		25 - 150
d5-NEtFOSAA	79		25 - 150
d-N-MeFOSA-M	79		10 - 150
d-N-EtFOSA-M	81		10 - 150
d7-N-MeFOSE-M	88		10 - 150
d9-N-EtFOSE-M	90		10 - 150
M2-4:2 FTS	77		25 - 150
M2-6:2 FTS	77		25 - 150
M2-8:2 FTS	74		25 - 150
13C3 HFPO-DA	83		25 - 150

**Lab Sample ID: LCSD 320-625842/3-A**  
**Matrix: Water**  
**Analysis Batch: 630390**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625842**

<i>Analyte</i>	<i>Spike</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>RPD</i>	<i>RPD</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>RPD</i>	<i>Limit</i>
Perfluorobutanoic acid (PFBA)	40.0	42.8		ng/L		107	60 - 135	4	30
Perfluoropentanoic acid (PFPeA)	40.0	41.0		ng/L		102	60 - 135	3	30
Perfluorohexanoic acid (PFHxA)	40.0	37.9		ng/L		95	60 - 135	5	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.4		ng/L		101	60 - 135	3	30
Perfluorooctanoic acid (PFOA)	40.0	41.6		ng/L		104	60 - 135	6	30
Perfluorononanoic acid (PFNA)	40.0	42.5		ng/L		106	60 - 135	1	30
Perfluorodecanoic acid (PFDA)	40.0	41.7		ng/L		104	60 - 135	4	30
Perfluoroundecanoic acid (PFUnA)	40.0	41.6		ng/L		104	60 - 135	5	30
Perfluorododecanoic acid (PFDoA)	40.0	40.7		ng/L		102	60 - 135	5	30
Perfluorotridecanoic acid (PFTTrDA)	40.0	41.7		ng/L		104	60 - 135	1	30
Perfluorotetradecanoic acid (PFTeA)	40.0	43.2		ng/L		108	60 - 135	2	30
Perfluorobutanesulfonic acid (PFBS)	35.5	36.8		ng/L		104	60 - 135	2	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	39.3		ng/L		105	60 - 135	1	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.4		ng/L		100	60 - 135	1	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	43.0		ng/L		113	60 - 135	5	30
Perfluorooctanesulfonic acid (PFOS)	37.2	36.6		ng/L		98	60 - 135	4	30
Perfluorononanesulfonic acid (PFNS)	38.5	38.4		ng/L		100	60 - 135	0	30
Perfluorodecanesulfonic acid (PFDS)	38.6	40.6		ng/L		105	60 - 135	2	30

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCSD 320-625842/3-A**  
**Matrix: Water**  
**Analysis Batch: 630390**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625842**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.3		ng/L		91	60 - 135	11	30
Perfluorooctanesulfonamide (FOSA)	40.0	41.7		ng/L		104	60 - 135	2	30
NEtFOSA	40.0	40.5		ng/L		101	60 - 135	2	30
NMeFOSA	40.0	41.9		ng/L		105	60 - 135	2	30
NMeFOSAA	40.0	44.9		ng/L		112	60 - 135	3	30
NEtFOSAA	40.0	41.2		ng/L		103	60 - 135	1	30
NMeFOSE	40.0	40.7		ng/L		102	60 - 135	4	30
NEtFOSE	40.0	42.0		ng/L		105	60 - 135	3	30
4:2 FTS	37.5	35.6		ng/L		95	60 - 135	7	30
6:2 FTS	38.1	35.5		ng/L		93	60 - 135	9	30
8:2 FTS	38.4	38.8		ng/L		101	60 - 135	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	38.9		ng/L		103	60 - 135	4	30
HFPO-DA (GenX)	40.0	38.2		ng/L		96	60 - 135	1	30
9CI-PF3ONS	37.4	34.9		ng/L		93	60 - 135	0	30
11CI-PF3OUdS	37.8	35.8		ng/L		95	60 - 135	1	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	97		25 - 150
13C5 PFPeA	100		25 - 150
13C2 PFHxA	97		25 - 150
13C4 PFHpA	93		25 - 150
13C4 PFOA	94		25 - 150
13C5 PFNA	91		25 - 150
13C2 PFDA	92		25 - 150
13C2 PFUnA	91		25 - 150
13C2 PFDoA	99		25 - 150
13C2 PFTeDA	95		25 - 150
13C3 PFBS	102		25 - 150
18O2 PFHxS	102		25 - 150
13C4 PFOS	98		25 - 150
13C8 FOSA	94		10 - 150
d3-NMeFOSAA	74		25 - 150
d5-NEtFOSAA	79		25 - 150
d-N-MeFOSA-M	80		10 - 150
d-N-EtFOSA-M	86		10 - 150
d7-N-MeFOSE-M	93		10 - 150
d9-N-EtFOSE-M	93		10 - 150
M2-4:2 FTS	78		25 - 150
M2-6:2 FTS	85		25 - 150
M2-8:2 FTS	73		25 - 150
13C3 HFPO-DA	87		25 - 150

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: MB 320-625844/1-A**  
**Matrix: Water**  
**Analysis Batch: 628571**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 625844**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/19/22 04:30	10/30/22 15:05	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/19/22 04:30	10/30/22 15:05	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/19/22 04:30	10/30/22 15:05	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 04:30	10/30/22 15:05	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 04:30	10/30/22 15:05	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 04:30	10/30/22 15:05	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 04:30	10/30/22 15:05	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/19/22 04:30	10/30/22 15:05	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/19/22 04:30	10/30/22 15:05	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/19/22 04:30	10/30/22 15:05	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/19/22 04:30	10/30/22 15:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 04:30	10/30/22 15:05	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 04:30	10/30/22 15:05	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 04:30	10/30/22 15:05	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 04:30	10/30/22 15:05	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	93		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C5 PFPeA	80		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C2 PFHxA	69		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C4 PFHpA	77		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C4 PFOA	78		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C5 PFNA	87		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C2 PFDA	79		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C2 PFUnA	66		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C2 PFDoA	67		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C2 PFTeDA	78		25 - 150	10/19/22 04:30	10/30/22 15:05	1

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: MB 320-625844/1-A**  
**Matrix: Water**  
**Analysis Batch: 628571**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 625844**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	67		25 - 150	10/19/22 04:30	10/30/22 15:05	1
18O2 PFHxS	81		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C4 PFOS	80		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C8 FOSA	80		10 - 150	10/19/22 04:30	10/30/22 15:05	1
d3-NMeFOSAA	69		25 - 150	10/19/22 04:30	10/30/22 15:05	1
d5-NEtFOSAA	67		25 - 150	10/19/22 04:30	10/30/22 15:05	1
d-N-MeFOSA-M	72		10 - 150	10/19/22 04:30	10/30/22 15:05	1
d-N-EtFOSA-M	66		10 - 150	10/19/22 04:30	10/30/22 15:05	1
d7-N-MeFOSE-M	64		10 - 150	10/19/22 04:30	10/30/22 15:05	1
d9-N-EtFOSE-M	59		10 - 150	10/19/22 04:30	10/30/22 15:05	1
M2-4:2 FTS	79		25 - 150	10/19/22 04:30	10/30/22 15:05	1
M2-6:2 FTS	81		25 - 150	10/19/22 04:30	10/30/22 15:05	1
M2-8:2 FTS	70		25 - 150	10/19/22 04:30	10/30/22 15:05	1
13C3 HFPO-DA	69		25 - 150	10/19/22 04:30	10/30/22 15:05	1

**Lab Sample ID: LCS 320-625844/2-A**  
**Matrix: Water**  
**Analysis Batch: 628571**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625844**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	39.1		ng/L		98	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	39.7		ng/L		99	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	42.0		ng/L		105	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	37.9		ng/L		95	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	42.8		ng/L		107	60 - 135
Perfluorononanoic acid (PFNA)	40.0	43.1		ng/L		108	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	43.2		ng/L		108	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	41.9		ng/L		105	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	36.6		ng/L		92	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	38.8		ng/L		97	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	39.9		ng/L		100	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	44.5		ng/L		125	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	41.5		ng/L		110	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	32.8		ng/L		90	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.3		ng/L		106	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	37.4		ng/L		101	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	37.8		ng/L		98	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	32.6		ng/L		85	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.9		ng/L		93	60 - 135

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCS 320-625844/2-A**  
**Matrix: Water**  
**Analysis Batch: 628571**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625844**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	41.2		ng/L		103	60 - 135
NEtFOSA	40.0	41.5		ng/L		104	60 - 135
NMeFOSA	40.0	43.6		ng/L		109	60 - 135
NMeFOSAA	40.0	40.8		ng/L		102	60 - 135
NEtFOSAA	40.0	44.4		ng/L		111	60 - 135
NMeFOSE	40.0	45.0		ng/L		112	60 - 135
NEtFOSE	40.0	40.5		ng/L		101	60 - 135
4:2 FTS	37.5	38.4		ng/L		102	60 - 135
6:2 FTS	38.1	40.7		ng/L		107	60 - 135
8:2 FTS	38.4	45.4		ng/L		118	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	38.3		ng/L		101	60 - 135
HFPO-DA (GenX)	40.0	44.0		ng/L		110	60 - 135
9Cl-PF3ONS	37.4	27.5		ng/L		74	60 - 135
11Cl-PF3OUdS	37.8	34.2		ng/L		90	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	111		25 - 150
13C5 PFPeA	105		25 - 150
13C2 PFHxA	85		25 - 150
13C4 PFHpA	94		25 - 150
13C4 PFOA	96		25 - 150
13C5 PFNA	103		25 - 150
13C2 PFDA	98		25 - 150
13C2 PFUnA	86		25 - 150
13C2 PFDoA	92		25 - 150
13C2 PFTeDA	90		25 - 150
13C3 PFBS	81		25 - 150
18O2 PFHxS	98		25 - 150
13C4 PFOS	100		25 - 150
13C8 FOSA	98		10 - 150
d3-NMeFOSAA	86		25 - 150
d5-NEtFOSAA	85		25 - 150
d-N-MeFOSA-M	82		10 - 150
d-N-EtFOSA-M	74		10 - 150
d7-N-MeFOSE-M	73		10 - 150
d9-N-EtFOSE-M	82		10 - 150
M2-4:2 FTS	92		25 - 150
M2-6:2 FTS	95		25 - 150
M2-8:2 FTS	90		25 - 150
13C3 HFPO-DA	83		25 - 150

**Lab Sample ID: LCSD 320-625844/3-A**  
**Matrix: Water**  
**Analysis Batch: 628571**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625844**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	40.0	39.5		ng/L		99	60 - 135	1	30

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCSD 320-625844/3-A**  
**Matrix: Water**  
**Analysis Batch: 628571**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625844**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	40.0	43.2		ng/L		108	60 - 135	8	30
Perfluorohexanoic acid (PFHxA)	40.0	42.4		ng/L		106	60 - 135	1	30
Perfluoroheptanoic acid (PFHpA)	40.0	38.6		ng/L		97	60 - 135	2	30
Perfluorooctanoic acid (PFOA)	40.0	41.0		ng/L		103	60 - 135	4	30
Perfluorononanoic acid (PFNA)	40.0	42.5		ng/L		106	60 - 135	1	30
Perfluorodecanoic acid (PFDA)	40.0	41.8		ng/L		105	60 - 135	3	30
Perfluoroundecanoic acid (PFUnA)	40.0	39.6		ng/L		99	60 - 135	6	30
Perfluorododecanoic acid (PFDoA)	40.0	40.4		ng/L		101	60 - 135	10	30
Perfluorotridecanoic acid (PFTrDA)	40.0	40.2		ng/L		100	60 - 135	4	30
Perfluorotetradecanoic acid (PFTeA)	40.0	39.0		ng/L		97	60 - 135	2	30
Perfluorobutanesulfonic acid (PFBS)	35.5	35.7		ng/L		100	60 - 135	22	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	43.8		ng/L		117	60 - 135	5	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	33.7		ng/L		92	60 - 135	3	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.4		ng/L		106	60 - 135	0	30
Perfluorooctanesulfonic acid (PFOS)	37.2	36.3		ng/L		97	60 - 135	3	30
Perfluorononanesulfonic acid (PFNS)	38.5	34.8		ng/L		90	60 - 135	8	30
Perfluorodecanesulfonic acid (PFDS)	38.6	28.1		ng/L		73	60 - 135	15	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	29.3		ng/L		75	60 - 135	20	30
Perfluorooctanesulfonamide (FOSA)	40.0	43.2		ng/L		108	60 - 135	5	30
NEtFOSA	40.0	40.8		ng/L		102	60 - 135	2	30
NMeFOSA	40.0	41.5		ng/L		104	60 - 135	5	30
NMeFOSAA	40.0	43.0		ng/L		107	60 - 135	5	30
NEtFOSAA	40.0	43.1		ng/L		108	60 - 135	3	30
NMeFOSE	40.0	42.9		ng/L		107	60 - 135	5	30
NEtFOSE	40.0	44.4		ng/L		111	60 - 135	9	30
4:2 FTS	37.5	44.2		ng/L		118	60 - 135	14	30
6:2 FTS	38.1	40.3		ng/L		106	60 - 135	1	30
8:2 FTS	38.4	42.8		ng/L		111	60 - 135	6	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	39.7		ng/L		105	60 - 135	4	30
HFPO-DA (GenX)	40.0	42.1		ng/L		105	60 - 135	5	30
9Cl-PF3ONS	37.4	28.9		ng/L		77	60 - 135	5	30
11Cl-PF3OUdS	37.8	31.9		ng/L		84	60 - 135	7	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
<sup>13</sup> C4 PFBA	108		25 - 150
<sup>13</sup> C5 PFPeA	97		25 - 150
<sup>13</sup> C2 PFHxA	86		25 - 150
<sup>13</sup> C4 PFHpA	94		25 - 150

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCSD 320-625844/3-A**  
**Matrix: Water**  
**Analysis Batch: 628571**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625844**

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	97		25 - 150
13C5 PFNA	100		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	78		25 - 150
13C2 PFDoA	74		25 - 150
13C2 PFTeDA	73		25 - 150
13C3 PFBS	78		25 - 150
18O2 PFHxS	87		25 - 150
13C4 PFOS	93		25 - 150
13C8 FOSA	84		10 - 150
d3-NMeFOSAA	75		25 - 150
d5-NEtFOSAA	74		25 - 150
d-N-MeFOSA-M	80		10 - 150
d-N-EtFOSA-M	70		10 - 150
d7-N-MeFOSE-M	67		10 - 150
d9-N-EtFOSE-M	65		10 - 150
M2-4:2 FTS	80		25 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	80		25 - 150
13C3 HFPO-DA	84		25 - 150

**Lab Sample ID: MB 320-625994/1-A**  
**Matrix: Water**  
**Analysis Batch: 628581**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 625994**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.0	1.3	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/19/22 12:15	10/30/22 23:03	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/19/22 12:15	10/30/22 23:03	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/19/22 12:15	10/30/22 23:03	1

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: MB 320-625994/1-A**  
**Matrix: Water**  
**Analysis Batch: 628581**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 625994**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	<0.43		2.0	0.43	ng/L		10/19/22 12:15	10/30/22 23:03	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/19/22 12:15	10/30/22 23:03	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/19/22 12:15	10/30/22 23:03	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/19/22 12:15	10/30/22 23:03	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/19/22 12:15	10/30/22 23:03	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/19/22 12:15	10/30/22 23:03	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/19/22 12:15	10/30/22 23:03	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/19/22 12:15	10/30/22 23:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/19/22 12:15	10/30/22 23:03	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/19/22 12:15	10/30/22 23:03	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/19/22 12:15	10/30/22 23:03	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/19/22 12:15	10/30/22 23:03	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	107		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C5 PFPeA	98		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C2 PFHxA	84		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C4 PFHpA	85		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C4 PFOA	93		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C5 PFNA	96		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C2 PFDA	91		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C2 PFUnA	75		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C2 PFDoA	73		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C2 PFTeDA	78		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C3 PFBS	79		25 - 150	10/19/22 12:15	10/30/22 23:03	1
18O2 PFHxS	89		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C4 PFOS	89		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C8 FOSA	89		10 - 150	10/19/22 12:15	10/30/22 23:03	1
d3-NMeFOSAA	73		25 - 150	10/19/22 12:15	10/30/22 23:03	1
d5-NEtFOSAA	75		25 - 150	10/19/22 12:15	10/30/22 23:03	1
d-N-MeFOSA-M	66		10 - 150	10/19/22 12:15	10/30/22 23:03	1
d-N-EtFOSA-M	63		10 - 150	10/19/22 12:15	10/30/22 23:03	1
d7-N-MeFOSE-M	64		10 - 150	10/19/22 12:15	10/30/22 23:03	1
d9-N-EtFOSE-M	61		10 - 150	10/19/22 12:15	10/30/22 23:03	1
M2-4:2 FTS	78		25 - 150	10/19/22 12:15	10/30/22 23:03	1
M2-6:2 FTS	82		25 - 150	10/19/22 12:15	10/30/22 23:03	1
M2-8:2 FTS	79		25 - 150	10/19/22 12:15	10/30/22 23:03	1
13C3 HFPO-DA	85		25 - 150	10/19/22 12:15	10/30/22 23:03	1

**Lab Sample ID: LCS 320-625994/2-A**  
**Matrix: Water**  
**Analysis Batch: 628581**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625994**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	40.8		ng/L		102	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	45.4		ng/L		114	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	35.9		ng/L		90	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	42.9		ng/L		107	60 - 135

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCS 320-625994/2-A**  
**Matrix: Water**  
**Analysis Batch: 628581**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625994**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	40.0	42.4		ng/L		106	60 - 135
Perfluorononanoic acid (PFNA)	40.0	44.9		ng/L		112	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	43.6		ng/L		109	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	41.4		ng/L		104	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	42.1		ng/L		105	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	44.1		ng/L		110	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	39.3		ng/L		98	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	34.1		ng/L		96	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	38.9		ng/L		104	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.2		ng/L		94	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	43.2		ng/L		113	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	40.8		ng/L		110	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	41.8		ng/L		109	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	30.0		ng/L		78	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.9		ng/L		85	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	44.8		ng/L		112	60 - 135
NEtFOSA	40.0	41.3		ng/L		103	60 - 135
NMeFOSA	40.0	42.0		ng/L		105	60 - 135
NMeFOSAA	40.0	41.2		ng/L		103	60 - 135
NEtFOSAA	40.0	41.4		ng/L		104	60 - 135
NMeFOSE	40.0	37.1		ng/L		93	60 - 135
NEtFOSE	40.0	46.2		ng/L		115	60 - 135
4:2 FTS	37.5	42.8		ng/L		114	60 - 135
6:2 FTS	38.1	39.6		ng/L		104	60 - 135
8:2 FTS	38.4	40.5		ng/L		105	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	41.8		ng/L		111	60 - 135
HFPO-DA (GenX)	40.0	34.9		ng/L		87	60 - 135
9Cl-PF3ONS	37.4	35.2		ng/L		94	60 - 135
11Cl-PF3OUdS	37.8	32.1		ng/L		85	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	108		25 - 150
13C5 PFPeA	95		25 - 150
13C2 PFHxA	102		25 - 150
13C4 PFHpA	88		25 - 150
13C4 PFOA	92		25 - 150
13C5 PFNA	94		25 - 150
13C2 PFDA	92		25 - 150

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCS 320-625994/2-A**  
**Matrix: Water**  
**Analysis Batch: 628581**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 625994**

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFUnA	76		25 - 150
13C2 PFDoA	70		25 - 150
13C2 PFTeDA	76		25 - 150
13C3 PFBS	84		25 - 150
18O2 PFHxS	88		25 - 150
13C4 PFOS	88		25 - 150
13C8 FOSA	82		10 - 150
d3-NMeFOSAA	73		25 - 150
d5-NEtFOSAA	70		25 - 150
d-N-MeFOSA-M	72		10 - 150
d-N-EtFOSA-M	68		10 - 150
d7-N-MeFOSE-M	76		10 - 150
d9-N-EtFOSE-M	61		10 - 150
M2-4:2 FTS	80		25 - 150
M2-6:2 FTS	87		25 - 150
M2-8:2 FTS	77		25 - 150
13C3 HFPO-DA	96		25 - 150

**Lab Sample ID: LCSD 320-625994/3-A**  
**Matrix: Water**  
**Analysis Batch: 628581**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625994**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	42.1		ng/L		105	60 - 135	3	30	
Perfluoropentanoic acid (PFPeA)	40.0	47.0		ng/L		118	60 - 135	3	30	
Perfluorohexanoic acid (PFHxA)	40.0	41.6		ng/L		104	60 - 135	15	30	
Perfluoroheptanoic acid (PFHpA)	40.0	44.8		ng/L		112	60 - 135	5	30	
Perfluorooctanoic acid (PFOA)	40.0	38.7		ng/L		97	60 - 135	9	30	
Perfluorononanoic acid (PFNA)	40.0	41.8		ng/L		104	60 - 135	7	30	
Perfluorodecanoic acid (PFDA)	40.0	40.5		ng/L		101	60 - 135	7	30	
Perfluoroundecanoic acid (PFUnA)	40.0	38.3		ng/L		96	60 - 135	8	30	
Perfluorododecanoic acid (PFDoA)	40.0	38.8		ng/L		97	60 - 135	8	30	
Perfluorotridecanoic acid (PFTTrDA)	40.0	40.6		ng/L		101	60 - 135	8	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	38.1		ng/L		95	60 - 135	3	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	37.1		ng/L		105	60 - 135	8	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	44.5		ng/L		119	60 - 135	13	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.8		ng/L		95	60 - 135	2	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	41.5		ng/L		109	60 - 135	4	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	38.8		ng/L		104	60 - 135	5	30	
Perfluorononanesulfonic acid (PFNS)	38.5	35.1		ng/L		91	60 - 135	17	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	30.3		ng/L		79	60 - 135	1	30	

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

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

**Lab Sample ID: LCSD 320-625994/3-A**  
**Matrix: Water**  
**Analysis Batch: 628581**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 625994**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.1		ng/L		83	60 - 135	2	30
Perfluorooctanesulfonamide (FOSA)	40.0	42.0		ng/L		105	60 - 135	6	30
NEtFOSA	40.0	41.5		ng/L		104	60 - 135	1	30
NMeFOSA	40.0	43.4		ng/L		108	60 - 135	3	30
NMeFOSAA	40.0	37.9		ng/L		95	60 - 135	8	30
NEtFOSAA	40.0	39.8		ng/L		100	60 - 135	4	30
NMeFOSE	40.0	40.9		ng/L		102	60 - 135	10	30
NEtFOSE	40.0	43.6		ng/L		109	60 - 135	6	30
4:2 FTS	37.5	48.3		ng/L		129	60 - 135	12	30
6:2 FTS	38.1	38.5		ng/L		101	60 - 135	3	30
8:2 FTS	38.4	43.4		ng/L		113	60 - 135	7	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	41.3		ng/L		109	60 - 135	1	30
HFPO-DA (GenX)	40.0	38.7		ng/L		97	60 - 135	10	30
9CI-PF3ONS	37.4	30.7		ng/L		82	60 - 135	14	30
11CI-PF3OUdS	37.8	35.0		ng/L		93	60 - 135	9	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	100		25 - 150
13C5 PFPeA	86		25 - 150
13C2 PFHxA	84		25 - 150
13C4 PFHpA	83		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	88		25 - 150
13C2 PFUnA	75		25 - 150
13C2 PFDoA	75		25 - 150
13C2 PFTeDA	76		25 - 150
13C3 PFBS	74		25 - 150
18O2 PFHxS	85		25 - 150
13C4 PFOS	87		25 - 150
13C8 FOSA	83		10 - 150
d3-NMeFOSAA	71		25 - 150
d5-NEtFOSAA	72		25 - 150
d-N-MeFOSA-M	75		10 - 150
d-N-EtFOSA-M	66		10 - 150
d7-N-MeFOSE-M	66		10 - 150
d9-N-EtFOSE-M	64		10 - 150
M2-4:2 FTS	76		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	73		25 - 150
13C3 HFPO-DA	82		25 - 150

# QC Association Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

## LCMS

### Prep Batch: 625548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-1	MP-01-(277-293)-202210	Total/NA	Water	3535	
320-93224-2	MP-01-(253-274)-202210	Total/NA	Water	3535	
320-93224-3	MP-01-(223-250)-202210	Total/NA	Water	3535	
320-93224-4	MP-01-(198-220)-202210	Total/NA	Water	3535	
320-93224-4 - DL	MP-01-(198-220)-202210	Total/NA	Water	3535	
320-93224-5	MP-01-(155-195)-202210	Total/NA	Water	3535	
320-93224-5 - DL	MP-01-(155-195)-202210	Total/NA	Water	3535	
320-93224-6 - DL	MP-01-(121-152)-202210	Total/NA	Water	3535	
320-93224-6	MP-01-(121-152)-202210	Total/NA	Water	3535	
320-93224-7 - DL	MP-01-(091-118)-202210	Total/NA	Water	3535	
320-93224-7	MP-01-(091-118)-202210	Total/NA	Water	3535	
320-93224-8	MP-01-(051-088)-202210	Total/NA	Water	3535	
320-93224-8 - DL	MP-01-(051-088)-202210	Total/NA	Water	3535	
320-93224-9	MP-02-(279-300)-202210	Total/NA	Water	3535	
320-93224-10	MP-02-(253-276)-202210	Total/NA	Water	3535	
MB 320-625548/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-625548/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-625548/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Prep Batch: 625842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-11	MP-02-(223-250)-202210	Total/NA	Water	3535	
320-93224-12 - DL	MP-02-(198-220)-202210	Total/NA	Water	3535	
320-93224-12	MP-02-(198-220)-202210	Total/NA	Water	3535	
320-93224-12 - RA	MP-02-(198-220)-202210	Total/NA	Water	3535	
320-93224-13 - DL	MP-02-(153-195)-202210-A	Total/NA	Water	3535	
320-93224-13	MP-02-(153-195)-202210-A	Total/NA	Water	3535	
320-93224-13 - RA	MP-02-(153-195)-202210-A	Total/NA	Water	3535	
320-93224-14 - DL	MP-02-(153-195)-202210-B	Total/NA	Water	3535	
320-93224-14	MP-02-(153-195)-202210-B	Total/NA	Water	3535	
320-93224-14 - RA	MP-02-(153-195)-202210-B	Total/NA	Water	3535	
320-93224-15 - DL	MP-02-(153-195)-202210-C	Total/NA	Water	3535	
320-93224-15	MP-02-(153-195)-202210-C	Total/NA	Water	3535	
320-93224-15 - RA	MP-02-(153-195)-202210-C	Total/NA	Water	3535	
320-93224-16	MP-03-(280-300)-202210	Total/NA	Water	3535	
320-93224-17	MP-03-(245-277)-202210	Total/NA	Water	3535	
320-93224-18	MP-03-(220-242)-202210	Total/NA	Water	3535	
320-93224-19	MP-03-(190-217)-202210	Total/NA	Water	3535	
320-93224-20 - DL	MP-03-(160-187)-202210	Total/NA	Water	3535	
320-93224-20	MP-03-(160-187)-202210	Total/NA	Water	3535	
320-93224-20 - RA	MP-03-(160-187)-202210	Total/NA	Water	3535	
320-93224-21	MP-03-(120-157)-202210	Total/NA	Water	3535	
320-93224-22	MP-03-(083-117)-202210	Total/NA	Water	3535	
320-93224-23	MP-03-(046-080)-202210	Total/NA	Water	3535	
320-93224-24	MP-04-(275-291)-202210	Total/NA	Water	3535	
MB 320-625842/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-625842/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-625842/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

# QC Association Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-93224-1

## LCMS

### Prep Batch: 625844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-25	MP-04-(245-272)-202210	Total/NA	Water	3535	
320-93224-26	MP-04-(220-242)-202210	Total/NA	Water	3535	
320-93224-27	MP-04-(195-217)-202210	Total/NA	Water	3535	
320-93224-28	MP-04-(155-192)-202210	Total/NA	Water	3535	
320-93224-28 - DL	MP-04-(155-192)-202210	Total/NA	Water	3535	
320-93224-29	MP-04-(115-152)-202210	Total/NA	Water	3535	
320-93224-29 - DL	MP-04-(115-152)-202210	Total/NA	Water	3535	
320-93224-30	MP-04-(080-112)-202210	Total/NA	Water	3535	
320-93224-30 - DL	MP-04-(080-112)-202210	Total/NA	Water	3535	
320-93224-31	MP-04-(048-077)-202210	Total/NA	Water	3535	
320-93224-32	MP-05-(SWL-065)-202210	Total/NA	Water	3535	
320-93224-32 - RA	MP-05-(SWL-065)-202210	Total/NA	Water	3535	
320-93224-33	DUP-01-202210	Total/NA	Water	3535	
320-93224-33 - RA	DUP-01-202210	Total/NA	Water	3535	
320-93224-34	DUP-02-202210	Total/NA	Water	3535	
320-93224-34 - DL	DUP-02-202210	Total/NA	Water	3535	
320-93224-34 - RA	DUP-02-202210	Total/NA	Water	3535	
MB 320-625844/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-625844/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-625844/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Prep Batch: 625994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-35	DUP-03-202210	Total/NA	Water	3535	
320-93224-35 - DL	DUP-03-202210	Total/NA	Water	3535	
320-93224-36	DUP-04-202210	Total/NA	Water	3535	
320-93224-36 - DL	DUP-04-202210	Total/NA	Water	3535	
320-93224-37	MP-01-EB-202210	Total/NA	Water	3535	
320-93224-38	MP-02-EB-202210	Total/NA	Water	3535	
320-93224-39	MP-03-EB-202210	Total/NA	Water	3535	
320-93224-40	MP-04-EB-202210	Total/NA	Water	3535	
320-93224-41	MP-05-EB-202210	Total/NA	Water	3535	
320-93224-42	FB-01-202210	Total/NA	Water	3535	
320-93224-43 - DL	MW-01-202210	Total/NA	Water	3535	
320-93224-43	MW-01-202210	Total/NA	Water	3535	
320-93224-44	MW-02-202210	Total/NA	Water	3535	
320-93224-44 - DL	MW-02-202210	Total/NA	Water	3535	
320-93224-45	MW-03-202210	Total/NA	Water	3535	
320-93224-46	MW-04-202210	Total/NA	Water	3535	
320-93224-46 - DL	MW-04-202210	Total/NA	Water	3535	
320-93224-47	MW-05-202210	Total/NA	Water	3535	
320-93224-47 - DL	MW-05-202210	Total/NA	Water	3535	
320-93224-48	MW-06-202210	Total/NA	Water	3535	
320-93224-49	MW-07-202210	Total/NA	Water	3535	
320-93224-50	PZ-01-202210	Total/NA	Water	3535	
320-93224-51	EB-06-202210	Total/NA	Water	3535	
320-93224-52 - DL	DUP-05-202210	Total/NA	Water	3535	
320-93224-52	DUP-05-202210	Total/NA	Water	3535	
MB 320-625994/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-625994/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-625994/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

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# QC Association Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

## LCMS

### Analysis Batch: 626682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-1	MP-01-(277-293)-202210	Total/NA	Water	537 (modified)	625548
320-93224-7	MP-01-(091-118)-202210	Total/NA	Water	537 (modified)	625548
320-93224-8	MP-01-(051-088)-202210	Total/NA	Water	537 (modified)	625548
MB 320-625548/1-A	Method Blank	Total/NA	Water	537 (modified)	625548
LCS 320-625548/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	625548
LCSD 320-625548/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	625548

### Analysis Batch: 627248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-2	MP-01-(253-274)-202210	Total/NA	Water	537 (modified)	625548
320-93224-3	MP-01-(223-250)-202210	Total/NA	Water	537 (modified)	625548
320-93224-4 - DL	MP-01-(198-220)-202210	Total/NA	Water	537 (modified)	625548
320-93224-4	MP-01-(198-220)-202210	Total/NA	Water	537 (modified)	625548
320-93224-5 - DL	MP-01-(155-195)-202210	Total/NA	Water	537 (modified)	625548
320-93224-5	MP-01-(155-195)-202210	Total/NA	Water	537 (modified)	625548
320-93224-6 - DL	MP-01-(121-152)-202210	Total/NA	Water	537 (modified)	625548
320-93224-6	MP-01-(121-152)-202210	Total/NA	Water	537 (modified)	625548
320-93224-7 - DL	MP-01-(091-118)-202210	Total/NA	Water	537 (modified)	625548
320-93224-8 - DL	MP-01-(051-088)-202210	Total/NA	Water	537 (modified)	625548
320-93224-9	MP-02-(279-300)-202210	Total/NA	Water	537 (modified)	625548
320-93224-10	MP-02-(253-276)-202210	Total/NA	Water	537 (modified)	625548

### Analysis Batch: 628571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-12	MP-02-(198-220)-202210	Total/NA	Water	537 (modified)	625842
320-93224-13	MP-02-(153-195)-202210-A	Total/NA	Water	537 (modified)	625842
320-93224-14	MP-02-(153-195)-202210-B	Total/NA	Water	537 (modified)	625842
320-93224-15	MP-02-(153-195)-202210-C	Total/NA	Water	537 (modified)	625842
320-93224-20	MP-03-(160-187)-202210	Total/NA	Water	537 (modified)	625842
320-93224-25	MP-04-(245-272)-202210	Total/NA	Water	537 (modified)	625844
320-93224-26	MP-04-(220-242)-202210	Total/NA	Water	537 (modified)	625844
320-93224-27	MP-04-(195-217)-202210	Total/NA	Water	537 (modified)	625844
320-93224-28	MP-04-(155-192)-202210	Total/NA	Water	537 (modified)	625844
320-93224-29	MP-04-(115-152)-202210	Total/NA	Water	537 (modified)	625844
320-93224-30	MP-04-(080-112)-202210	Total/NA	Water	537 (modified)	625844
320-93224-31	MP-04-(048-077)-202210	Total/NA	Water	537 (modified)	625844
320-93224-32	MP-05-(SWL-065)-202210	Total/NA	Water	537 (modified)	625844
320-93224-33	DUP-01-202210	Total/NA	Water	537 (modified)	625844
320-93224-34	DUP-02-202210	Total/NA	Water	537 (modified)	625844
MB 320-625844/1-A	Method Blank	Total/NA	Water	537 (modified)	625844
LCS 320-625844/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	625844
LCSD 320-625844/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	625844

### Analysis Batch: 628581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-35	DUP-03-202210	Total/NA	Water	537 (modified)	625994
320-93224-36	DUP-04-202210	Total/NA	Water	537 (modified)	625994
320-93224-37	MP-01-EB-202210	Total/NA	Water	537 (modified)	625994
320-93224-38	MP-02-EB-202210	Total/NA	Water	537 (modified)	625994
320-93224-39	MP-03-EB-202210	Total/NA	Water	537 (modified)	625994
320-93224-40	MP-04-EB-202210	Total/NA	Water	537 (modified)	625994

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# QC Association Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

## LCMS (Continued)

### Analysis Batch: 628581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-41	MP-05-EB-202210	Total/NA	Water	537 (modified)	625994
320-93224-42	FB-01-202210	Total/NA	Water	537 (modified)	625994
320-93224-43	MW-01-202210	Total/NA	Water	537 (modified)	625994
320-93224-44	MW-02-202210	Total/NA	Water	537 (modified)	625994
320-93224-45	MW-03-202210	Total/NA	Water	537 (modified)	625994
320-93224-46	MW-04-202210	Total/NA	Water	537 (modified)	625994
320-93224-47	MW-05-202210	Total/NA	Water	537 (modified)	625994
320-93224-48	MW-06-202210	Total/NA	Water	537 (modified)	625994
320-93224-49	MW-07-202210	Total/NA	Water	537 (modified)	625994
320-93224-50	PZ-01-202210	Total/NA	Water	537 (modified)	625994
320-93224-51	EB-06-202210	Total/NA	Water	537 (modified)	625994
320-93224-52	DUP-05-202210	Total/NA	Water	537 (modified)	625994
MB 320-625994/1-A	Method Blank	Total/NA	Water	537 (modified)	625994
LCS 320-625994/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	625994
LCSD 320-625994/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	625994

### Analysis Batch: 629271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-35 - DL	DUP-03-202210	Total/NA	Water	537 (modified)	625994
320-93224-36 - DL	DUP-04-202210	Total/NA	Water	537 (modified)	625994
320-93224-43 - DL	MW-01-202210	Total/NA	Water	537 (modified)	625994
320-93224-44 - DL	MW-02-202210	Total/NA	Water	537 (modified)	625994
320-93224-46 - DL	MW-04-202210	Total/NA	Water	537 (modified)	625994
320-93224-47 - DL	MW-05-202210	Total/NA	Water	537 (modified)	625994
320-93224-52 - DL	DUP-05-202210	Total/NA	Water	537 (modified)	625994

### Analysis Batch: 630390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-12 - DL	MP-02-(198-220)-202210	Total/NA	Water	537 (modified)	625842
320-93224-13 - DL	MP-02-(153-195)-202210-A	Total/NA	Water	537 (modified)	625842
320-93224-14 - DL	MP-02-(153-195)-202210-B	Total/NA	Water	537 (modified)	625842
320-93224-15 - DL	MP-02-(153-195)-202210-C	Total/NA	Water	537 (modified)	625842
320-93224-16	MP-03-(280-300)-202210	Total/NA	Water	537 (modified)	625842
320-93224-17	MP-03-(245-277)-202210	Total/NA	Water	537 (modified)	625842
320-93224-18	MP-03-(220-242)-202210	Total/NA	Water	537 (modified)	625842
320-93224-19	MP-03-(190-217)-202210	Total/NA	Water	537 (modified)	625842
320-93224-20 - DL	MP-03-(160-187)-202210	Total/NA	Water	537 (modified)	625842
320-93224-22	MP-03-(083-117)-202210	Total/NA	Water	537 (modified)	625842
320-93224-24	MP-04-(275-291)-202210	Total/NA	Water	537 (modified)	625842
MB 320-625842/1-A	Method Blank	Total/NA	Water	537 (modified)	625842
LCS 320-625842/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	625842
LCSD 320-625842/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	625842

### Analysis Batch: 630471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-29 - DL	MP-04-(115-152)-202210	Total/NA	Water	537 (modified)	625844
320-93224-30 - DL	MP-04-(080-112)-202210	Total/NA	Water	537 (modified)	625844
320-93224-32 - RA	MP-05-(SWL-065)-202210	Total/NA	Water	537 (modified)	625844
320-93224-33 - RA	DUP-01-202210	Total/NA	Water	537 (modified)	625844
320-93224-34 - DL	DUP-02-202210	Total/NA	Water	537 (modified)	625844

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# QC Association Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

## LCMS

### Analysis Batch: 631720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-11	MP-02-(223-250)-202210	Total/NA	Water	537 (modified)	625842
320-93224-21	MP-03-(120-157)-202210	Total/NA	Water	537 (modified)	625842
320-93224-23	MP-03-(046-080)-202210	Total/NA	Water	537 (modified)	625842

### Analysis Batch: 634604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-28 - DL	MP-04-(155-192)-202210	Total/NA	Water	537 (modified)	625844

### Analysis Batch: 635353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93224-12 - RA	MP-02-(198-220)-202210	Total/NA	Water	537 (modified)	625842
320-93224-13 - RA	MP-02-(153-195)-202210-A	Total/NA	Water	537 (modified)	625842
320-93224-14 - RA	MP-02-(153-195)-202210-B	Total/NA	Water	537 (modified)	625842
320-93224-15 - RA	MP-02-(153-195)-202210-C	Total/NA	Water	537 (modified)	625842
320-93224-20 - RA	MP-03-(160-187)-202210	Total/NA	Water	537 (modified)	625842
320-93224-34 - RA	DUP-02-202210	Total/NA	Water	537 (modified)	625844

# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(277-293)-202210**

**Lab Sample ID: 320-93224-1**

Date Collected: 10/13/22 14:05

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			226.4 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	626682	10/22/22 20:57	RS1	EET SAC

**Client Sample ID: MP-01-(253-274)-202210**

**Lab Sample ID: 320-93224-2**

Date Collected: 10/13/22 14:20

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			235.9 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	627248	10/25/22 06:23	JTD	EET SAC

**Client Sample ID: MP-01-(223-250)-202210**

**Lab Sample ID: 320-93224-3**

Date Collected: 10/13/22 14:45

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			248.8 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	627248	10/25/22 06:33	JTD	EET SAC

**Client Sample ID: MP-01-(198-220)-202210**

**Lab Sample ID: 320-93224-4**

Date Collected: 10/13/22 15:00

Matrix: Water

Date Received: 10/14/22 14:20

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		250.1 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	627248	10/25/22 07:03	JTD	EET SAC
Total/NA	Prep	3535			250.1 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	627248	10/25/22 08:34	JTD	EET SAC

**Client Sample ID: MP-01-(155-195)-202210**

**Lab Sample ID: 320-93224-5**

Date Collected: 10/13/22 15:15

Matrix: Water

Date Received: 10/14/22 14:20

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		248.1 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)	DL	20	1 mL	1 mL	627248	10/25/22 07:34	JTD	EET SAC
Total/NA	Prep	3535			248.1 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	627248	10/25/22 08:44	JTD	EET SAC

**Client Sample ID: MP-01-(121-152)-202210**

**Lab Sample ID: 320-93224-6**

Date Collected: 10/13/22 15:30

Matrix: Water

Date Received: 10/14/22 14:20

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		241.2 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)	DL	20	1 mL	1 mL	627248	10/25/22 07:44	JTD	EET SAC

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# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-01-(121-152)-202210**

**Lab Sample ID: 320-93224-6**

Date Collected: 10/13/22 15:30

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			241.2 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	627248	10/25/22 08:54	JTD	EET SAC

**Client Sample ID: MP-01-(091-118)-202210**

**Lab Sample ID: 320-93224-7**

Date Collected: 10/13/22 15:45

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			233.3 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	626682	10/22/22 21:57	RS1	EET SAC
Total/NA	Prep	3535	DL		233.3 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)	DL	20	1 mL	1 mL	627248	10/25/22 07:54	JTD	EET SAC

**Client Sample ID: MP-01-(051-088)-202210**

**Lab Sample ID: 320-93224-8**

Date Collected: 10/13/22 16:00

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			201.1 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	626682	10/22/22 22:38	RS1	EET SAC
Total/NA	Prep	3535	DL		201.1 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)	DL	20	1 mL	1 mL	627248	10/25/22 08:24	JTD	EET SAC

**Client Sample ID: MP-02-(279-300)-202210**

**Lab Sample ID: 320-93224-9**

Date Collected: 10/12/22 08:00

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			258 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	627248	10/25/22 06:43	JTD	EET SAC

**Client Sample ID: MP-02-(253-276)-202210**

**Lab Sample ID: 320-93224-10**

Date Collected: 10/12/22 08:20

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			240.1 mL	10.0 mL	625548	10/17/22 19:26	FX	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	627248	10/25/22 06:53	JTD	EET SAC

**Client Sample ID: MP-02-(223-250)-202210**

**Lab Sample ID: 320-93224-11**

Date Collected: 10/12/22 08:35

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			251.9 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	631720	11/08/22 23:52	RS1	EET SAC

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# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-(198-220)-202210**

**Lab Sample ID: 320-93224-12**

**Date Collected: 10/12/22 08:50**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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		238.3 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	630390	11/05/22 03:49	K1S	EET SAC
Total/NA	Prep	3535			238.3 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 18:38	PCY	EET SAC
Total/NA	Prep	3535	RA		238.3 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	635353	11/24/22 17:45	RS1	EET SAC

**Client Sample ID: MP-02-(153-195)-202210-A**

**Lab Sample ID: 320-93224-13**

**Date Collected: 10/12/22 09:10**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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		240.7 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	630390	11/05/22 03:59	K1S	EET SAC
Total/NA	Prep	3535			240.7 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 18:48	PCY	EET SAC
Total/NA	Prep	3535	RA		240.7 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	635353	11/24/22 17:55	RS1	EET SAC

**Client Sample ID: MP-02-(153-195)-202210-B**

**Lab Sample ID: 320-93224-14**

**Date Collected: 10/12/22 10:05**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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		248.7 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	630390	11/05/22 04:09	K1S	EET SAC
Total/NA	Prep	3535			248.7 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 18:58	PCY	EET SAC
Total/NA	Prep	3535	RA		248.7 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	635353	11/24/22 18:05	RS1	EET SAC

**Client Sample ID: MP-02-(153-195)-202210-C**

**Lab Sample ID: 320-93224-15**

**Date Collected: 10/12/22 11:25**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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		237.9 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	630390	11/05/22 04:20	K1S	EET SAC
Total/NA	Prep	3535			237.9 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 19:38	PCY	EET SAC
Total/NA	Prep	3535	RA		237.9 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	635353	11/24/22 18:15	RS1	EET SAC

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# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(280-300)-202210**

**Lab Sample ID: 320-93224-16**

**Date Collected: 10/11/22 13:20**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			244.6 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	630390	11/05/22 01:58	K1S	EET SAC

**Client Sample ID: MP-03-(245-277)-202210**

**Lab Sample ID: 320-93224-17**

**Date Collected: 10/11/22 13:30**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			253.7 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	630390	11/05/22 02:08	K1S	EET SAC

**Client Sample ID: MP-03-(220-242)-202210**

**Lab Sample ID: 320-93224-18**

**Date Collected: 10/11/22 13:45**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	630390	11/05/22 02:18	K1S	EET SAC

**Client Sample ID: MP-03-(190-217)-202210**

**Lab Sample ID: 320-93224-19**

**Date Collected: 10/11/22 14:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			229 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	630390	11/05/22 02:28	K1S	EET SAC

**Client Sample ID: MP-03-(160-187)-202210**

**Lab Sample ID: 320-93224-20**

**Date Collected: 10/11/22 14:15**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

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		249.6 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	630390	11/05/22 04:30	K1S	EET SAC
Total/NA	Prep	3535			249.6 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 20:29	PCY	EET SAC
Total/NA	Prep	3535	RA		249.6 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	635353	11/24/22 18:25	RS1	EET SAC

**Client Sample ID: MP-03-(120-157)-202210**

**Lab Sample ID: 320-93224-21**

**Date Collected: 10/11/22 14:25**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			246.4 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	631720	11/09/22 00:12	RS1	EET SAC

Eurofins Sacramento

# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-03-(083-117)-202210**

**Lab Sample ID: 320-93224-22**

**Date Collected: 10/11/22 14:45**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			238.7 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	630390	11/05/22 02:48	K1S	EET SAC

**Client Sample ID: MP-03-(046-080)-202210**

**Lab Sample ID: 320-93224-23**

**Date Collected: 10/11/22 15:15**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			204.6 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	631720	11/09/22 00:22	RS1	EET SAC

**Client Sample ID: MP-04-(275-291)-202210**

**Lab Sample ID: 320-93224-24**

**Date Collected: 10/11/22 10:20**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256.1 mL	10.0 mL	625842	10/19/22 04:20	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	630390	11/05/22 03:39	K1S	EET SAC

**Client Sample ID: MP-04-(245-272)-202210**

**Lab Sample ID: 320-93224-25**

**Date Collected: 10/11/22 10:35**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			242.2 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 15:35	PCY	EET SAC

**Client Sample ID: MP-04-(220-242)-202210**

**Lab Sample ID: 320-93224-26**

**Date Collected: 10/11/22 10:50**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			214.6 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 15:45	PCY	EET SAC

**Client Sample ID: MP-04-(195-217)-202210**

**Lab Sample ID: 320-93224-27**

**Date Collected: 10/11/22 11:05**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			252.5 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 15:56	PCY	EET SAC

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# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-04-(155-192)-202210**

**Lab Sample ID: 320-93224-28**

**Date Collected: 10/11/22 11:20**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			231.6 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 16:06	PCY	EET SAC
Total/NA	Prep	3535	DL		231.6 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	634604	11/22/22 03:56	S1M	EET SAC

**Client Sample ID: MP-04-(115-152)-202210**

**Lab Sample ID: 320-93224-29**

**Date Collected: 10/11/22 11:35**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			237.2 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 16:16	PCY	EET SAC
Total/NA	Prep	3535	DL		237.2 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)	DL	50	1 mL	1 mL	630471	11/05/22 20:33	K1S	EET SAC

**Client Sample ID: MP-04-(080-112)-202210**

**Lab Sample ID: 320-93224-30**

**Date Collected: 10/11/22 11:50**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			224 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 16:26	PCY	EET SAC
Total/NA	Prep	3535	DL		224 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)	DL	10	1 mL	1 mL	630471	11/05/22 20:23	K1S	EET SAC

**Client Sample ID: MP-04-(048-077)-202210**

**Lab Sample ID: 320-93224-31**

**Date Collected: 10/11/22 12:05**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			195.2 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 16:36	PCY	EET SAC

**Client Sample ID: MP-05-(SWL-065)-202210**

**Lab Sample ID: 320-93224-32**

**Date Collected: 10/11/22 09:10**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			212 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 17:17	PCY	EET SAC
Total/NA	Prep	3535	RA		212 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	630471	11/05/22 19:52	K1S	EET SAC

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# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: DUP-01-202210**

**Lab Sample ID: 320-93224-33**

**Date Collected: 10/11/22 00:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			227.6 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 17:27	PCY	EET SAC
Total/NA	Prep	3535	RA		227.6 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	630471	11/05/22 20:03	K1S	EET SAC

**Client Sample ID: DUP-02-202210**

**Lab Sample ID: 320-93224-34**

**Date Collected: 10/11/22 00:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			245.1 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628571	10/30/22 17:37	PCY	EET SAC
Total/NA	Prep	3535	DL		245.1 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)	DL	50	1 mL	1 mL	630471	11/05/22 20:43	K1S	EET SAC
Total/NA	Prep	3535	RA		245.1 mL	10.0 mL	625844	10/19/22 04:30	EJR	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	635353	11/24/22 18:35	RS1	EET SAC

**Client Sample ID: DUP-03-202210**

**Lab Sample ID: 320-93224-35**

**Date Collected: 10/11/22 00:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/30/22 23:33	RS1	EET SAC
Total/NA	Prep	3535	DL		250 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	629271	11/01/22 02:59	D1R	EET SAC

**Client Sample ID: DUP-04-202210**

**Lab Sample ID: 320-93224-36**

**Date Collected: 10/13/22 00:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250.8 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/30/22 23:43	RS1	EET SAC
Total/NA	Prep	3535	DL		250.8 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	629271	11/01/22 03:09	D1R	EET SAC

**Client Sample ID: MP-01-EB-202210**

**Lab Sample ID: 320-93224-37**

**Date Collected: 10/12/22 12:00**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			265.2 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/30/22 23:53	RS1	EET SAC

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# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MP-02-EB-202210**

**Lab Sample ID: 320-93224-38**

Date Collected: 10/12/22 07:30

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			254 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 00:03	RS1	EET SAC

**Client Sample ID: MP-03-EB-202210**

**Lab Sample ID: 320-93224-39**

Date Collected: 10/11/22 12:30

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			265.1 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 00:13	RS1	EET SAC

**Client Sample ID: MP-04-EB-202210**

**Lab Sample ID: 320-93224-40**

Date Collected: 10/11/22 09:30

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.3 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 00:24	RS1	EET SAC

**Client Sample ID: MP-05-EB-202210**

**Lab Sample ID: 320-93224-41**

Date Collected: 10/11/22 08:30

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			265.6 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 00:34	RS1	EET SAC

**Client Sample ID: FB-01-202210**

**Lab Sample ID: 320-93224-42**

Date Collected: 10/11/22 10:25

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			260.9 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 01:14	RS1	EET SAC

**Client Sample ID: MW-01-202210**

**Lab Sample ID: 320-93224-43**

Date Collected: 10/11/22 16:14

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			266.5 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 01:25	RS1	EET SAC
Total/NA	Prep	3535	DL		266.5 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)	DL	10	1 mL	1 mL	629271	11/01/22 03:29	D1R	EET SAC

Eurofins Sacramento

# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-02-202210**

**Lab Sample ID: 320-93224-44**

**Date Collected: 10/12/22 13:20**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279.8 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 01:35	RS1	EET SAC
Total/NA	Prep	3535	DL		279.8 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)	DL	10	1 mL	1 mL	629271	11/01/22 03:39	D1R	EET SAC

**Client Sample ID: MW-03-202210**

**Lab Sample ID: 320-93224-45**

**Date Collected: 10/11/22 15:03**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			276.2 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 01:45	RS1	EET SAC

**Client Sample ID: MW-04-202210**

**Lab Sample ID: 320-93224-46**

**Date Collected: 10/12/22 14:49**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			266.3 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 01:55	RS1	EET SAC
Total/NA	Prep	3535	DL		266.3 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)	DL	50	1 mL	1 mL	629271	11/01/22 03:49	D1R	EET SAC

**Client Sample ID: MW-05-202210**

**Lab Sample ID: 320-93224-47**

**Date Collected: 10/12/22 12:03**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			264.8 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 02:05	RS1	EET SAC
Total/NA	Prep	3535	DL		264.8 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)	DL	5	1 mL	1 mL	629271	11/01/22 03:19	D1R	EET SAC

**Client Sample ID: MW-06-202210**

**Lab Sample ID: 320-93224-48**

**Date Collected: 10/11/22 13:23**

**Matrix: Water**

**Date Received: 10/14/22 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.6 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 02:15	RS1	EET SAC

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# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

**Client Sample ID: MW-07-202210**

**Lab Sample ID: 320-93224-49**

Date Collected: 10/11/22 12:07

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256.3 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 02:25	RS1	EET SAC

**Client Sample ID: PZ-01-202210**

**Lab Sample ID: 320-93224-50**

Date Collected: 10/12/22 10:05

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275.2 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 02:35	RS1	EET SAC

**Client Sample ID: EB-06-202210**

**Lab Sample ID: 320-93224-51**

Date Collected: 10/12/22 14:05

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.2 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 02:46	RS1	EET SAC

**Client Sample ID: DUP-05-202210**

**Lab Sample ID: 320-93224-52**

Date Collected: 10/12/22 00:00

Matrix: Water

Date Received: 10/14/22 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			252.2 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	628581	10/31/22 03:26	RS1	EET SAC
Total/NA	Prep	3535	DL		252.2 mL	10.0 mL	625994	10/19/22 12:15	MRP	EET SAC
Total/NA	Analysis	537 (modified)	DL	50	1 mL	1 mL	629271	11/01/22 04:00	D1R	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: 320-93224-1

## Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-23
Arkansas DEQ	State	88-0691	06-17-23
California	State	2897	01-31-23
Colorado	State	CA0004	08-31-23
Florida	NELAP	E87570	06-30-23
Georgia	State	4040	01-30-23
Hawaii	State	<cert No.>	01-29-23
Illinois	NELAP	200060	03-17-24
Kansas	NELAP	E-10375	10-31-23
Louisiana	NELAP	01944	06-30-23
Louisiana (All)	NELAP	01944	06-30-23
Maine	State	CA00004	04-14-24
Michigan	State	9947	01-31-23
Nevada	State	CA00044	07-31-23
New Hampshire	NELAP	2997	04-18-23
New Jersey	NELAP	CA005	06-30-23
New York	NELAP	11666	04-01-23
Ohio	State	41252	01-29-23
Oregon	NELAP	4040	01-29-23
Texas	NELAP	T104704399-19-13	05-31-23
US Fish & Wildlife	US Federal Programs	58448	04-30-23
USDA	US Federal Programs	P330-18-00239	01-23-23
Utah	NELAP	CA000442021-12	02-28-23
Virginia	NELAP	460278	03-14-23
Washington	State	C581	05-05-23
West Virginia (DW)	State	9930C	12-13-22
Wisconsin	State	998204680	08-31-23
Wyoming	State Program	8TMS-L	01-28-19 *

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

Eurofins Sacramento

# Method Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-93224-1

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: 320-93224-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93224-1	MP-01-(277-293)-202210	Water	10/13/22 14:05	10/14/22 14:20
320-93224-2	MP-01-(253-274)-202210	Water	10/13/22 14:20	10/14/22 14:20
320-93224-3	MP-01-(223-250)-202210	Water	10/13/22 14:45	10/14/22 14:20
320-93224-4	MP-01-(198-220)-202210	Water	10/13/22 15:00	10/14/22 14:20
320-93224-5	MP-01-(155-195)-202210	Water	10/13/22 15:15	10/14/22 14:20
320-93224-6	MP-01-(121-152)-202210	Water	10/13/22 15:30	10/14/22 14:20
320-93224-7	MP-01-(091-118)-202210	Water	10/13/22 15:45	10/14/22 14:20
320-93224-8	MP-01-(051-088)-202210	Water	10/13/22 16:00	10/14/22 14:20
320-93224-9	MP-02-(279-300)-202210	Water	10/12/22 08:00	10/14/22 14:20
320-93224-10	MP-02-(253-276)-202210	Water	10/12/22 08:20	10/14/22 14:20
320-93224-11	MP-02-(223-250)-202210	Water	10/12/22 08:35	10/14/22 14:20
320-93224-12	MP-02-(198-220)-202210	Water	10/12/22 08:50	10/14/22 14:20
320-93224-13	MP-02-(153-195)-202210-A	Water	10/12/22 09:10	10/14/22 14:20
320-93224-14	MP-02-(153-195)-202210-B	Water	10/12/22 10:05	10/14/22 14:20
320-93224-15	MP-02-(153-195)-202210-C	Water	10/12/22 11:25	10/14/22 14:20
320-93224-16	MP-03-(280-300)-202210	Water	10/11/22 13:20	10/14/22 14:20
320-93224-17	MP-03-(245-277)-202210	Water	10/11/22 13:30	10/14/22 14:20
320-93224-18	MP-03-(220-242)-202210	Water	10/11/22 13:45	10/14/22 14:20
320-93224-19	MP-03-(190-217)-202210	Water	10/11/22 14:00	10/14/22 14:20
320-93224-20	MP-03-(160-187)-202210	Water	10/11/22 14:15	10/14/22 14:20
320-93224-21	MP-03-(120-157)-202210	Water	10/11/22 14:25	10/14/22 14:20
320-93224-22	MP-03-(083-117)-202210	Water	10/11/22 14:45	10/14/22 14:20
320-93224-23	MP-03-(046-080)-202210	Water	10/11/22 15:15	10/14/22 14:20
320-93224-24	MP-04-(275-291)-202210	Water	10/11/22 10:20	10/14/22 14:20
320-93224-25	MP-04-(245-272)-202210	Water	10/11/22 10:35	10/14/22 14:20
320-93224-26	MP-04-(220-242)-202210	Water	10/11/22 10:50	10/14/22 14:20
320-93224-27	MP-04-(195-217)-202210	Water	10/11/22 11:05	10/14/22 14:20
320-93224-28	MP-04-(155-192)-202210	Water	10/11/22 11:20	10/14/22 14:20
320-93224-29	MP-04-(115-152)-202210	Water	10/11/22 11:35	10/14/22 14:20
320-93224-30	MP-04-(080-112)-202210	Water	10/11/22 11:50	10/14/22 14:20
320-93224-31	MP-04-(048-077)-202210	Water	10/11/22 12:05	10/14/22 14:20
320-93224-32	MP-05-(SWL-065)-202210	Water	10/11/22 09:10	10/14/22 14:20
320-93224-33	DUP-01-202210	Water	10/11/22 00:00	10/14/22 14:20
320-93224-34	DUP-02-202210	Water	10/11/22 00:00	10/14/22 14:20
320-93224-35	DUP-03-202210	Water	10/11/22 00:00	10/14/22 14:20
320-93224-36	DUP-04-202210	Water	10/13/22 00:00	10/14/22 14:20
320-93224-37	MP-01-EB-202210	Water	10/12/22 12:00	10/14/22 14:20
320-93224-38	MP-02-EB-202210	Water	10/12/22 07:30	10/14/22 14:20
320-93224-39	MP-03-EB-202210	Water	10/11/22 12:30	10/14/22 14:20
320-93224-40	MP-04-EB-202210	Water	10/11/22 09:30	10/14/22 14:20
320-93224-41	MP-05-EB-202210	Water	10/11/22 08:30	10/14/22 14:20
320-93224-42	FB-01-202210	Water	10/11/22 10:25	10/14/22 14:20
320-93224-43	MW-01-202210	Water	10/11/22 16:14	10/14/22 14:20
320-93224-44	MW-02-202210	Water	10/12/22 13:20	10/14/22 14:20
320-93224-45	MW-03-202210	Water	10/11/22 15:03	10/14/22 14:20
320-93224-46	MW-04-202210	Water	10/12/22 14:49	10/14/22 14:20
320-93224-47	MW-05-202210	Water	10/12/22 12:03	10/14/22 14:20
320-93224-48	MW-06-202210	Water	10/11/22 13:23	10/14/22 14:20
320-93224-49	MW-07-202210	Water	10/11/22 12:07	10/14/22 14:20
320-93224-50	PZ-01-202210	Water	10/12/22 10:05	10/14/22 14:20
320-93224-51	EB-06-202210	Water	10/12/22 14:05	10/14/22 14:20
320-93224-52	DUP-05-202210	Water	10/12/22 00:00	10/14/22 14:20











TAL-8210

Regulatory Program:  DW  NPDES  RCRA  Other:

Company Name: TREC Client Contact: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: 414-294-9297  
 Fax: \_\_\_\_\_  
 Project Name: Rockben Phase 1, 2  
 Site: Rockben  
 P O # \_\_\_\_\_

Project Manager: Jeff Ramey Date: \_\_\_\_\_  
 Tell/Email: jeff.ramey@trec.com Carrier: \_\_\_\_\_  
 Site Contact: \_\_\_\_\_  
 Lab Contact: \_\_\_\_\_

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:
MW-01-202210	10/11/22	1614	G	GW	2			
MW-02-202210	10/12/22	1326	G		2			
MW-03-202210	10/11/22	1503	G		2			
MW-04-202210	10/12/22	1449	G		2			
MW-05-202210	10/12/22	1203	G		2			
MW-06-202210	10/11/22	1323	G		2			
MW-07-202210	10/11/22	1207	G		2			
P2-01-202210	10/12/22	1005	G		2			
EB-06-202210	10/12/22	1705	G	W	2			
POP-05-202210	10/12/22	-	G	W	2			

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  Poison B  Unknown

Special Instructions/QC Requirements & Comments:

Custody Seals Intact:  Yes  No  
 Relinquished by: [Signature] Date/Time: 17:45 10/13  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Company: TREC  
 Company: \_\_\_\_\_  
 Company: \_\_\_\_\_

Received by: [Signature] Date/Time: 10/14/22 9:40  
 Received by: ETT SAC Company: \_\_\_\_\_  
 Received in Laboratory by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Cooler Temp. (°C): Obs'd: 5.6 Corr'd: 5.6 Therm ID No.: 603  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months



# Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-93224-1

**Login Number: 93224**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator: Her, David A**

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