

## ANALYTICAL REPORT

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Tel: (916)373-5600

Laboratory Job ID: 320-76376-1  
Client Project/Site: 437865 RockGen

**For:**

TRC Environmental Corporation  
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West Allis, Wisconsin 53214

Attn: Jeff Ramey



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*Authorized for release by:*  
7/22/2021 10:16:58 AM

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

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



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# Definitions/Glossary

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

## Qualifiers

### LCMS

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

## Glossary

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

# Case Narrative

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

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**Job ID: 320-76376-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

## Narrative

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### Receipt

The samples were received on 7/17/2021 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9° C.

### Receipt Exceptions

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): Sample 10, both container have time 1145 but COC has time 1150. Sample 11, both container have time 1150 but COC has time 1145. Samples were logged in and labeled according to time on COC. EB-01-20210716 (320-76376-10) and FB-01-20210716 (320-76376-11).

### LCMS

Method 537 (modified): Results for samples MW-01-20210716 (320-76376-1), MW-02-20210716 (320-76376-2), MW-04-20210716 (320-76376-4) and PW-01-20210716 (320-76376-12) 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.

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 320-507884 and 320-507884.

Method 3535: The following sample was beige prior to extraction: IPW-01-20210716 (320-76376-13)

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: 437865 RockGen

Job ID: 320-76376-1

## Client Sample ID: MW-01-20210716

## Lab Sample ID: 320-76376-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	270		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	210		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	160		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	15		1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.83	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.64	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4		1.8	0.50	ng/L	1		537 (modified)	Total/NA
8:2 FTS	13		1.8	0.42	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1200		9.2	2.3	ng/L	5		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	530		9.2	2.7	ng/L	5		537 (modified)	Total/NA
6:2 FTS - DL	870		23	11	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MW-02-20210716

## Lab Sample ID: 320-76376-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	240		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	200		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	90		1.8	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.8		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.37	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.87	J	1.8	0.47	ng/L	1		537 (modified)	Total/NA
4:2 FTS	2.7		1.8	0.21	ng/L	1		537 (modified)	Total/NA
8:2 FTS	39		1.8	0.40	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1100		8.8	2.1	ng/L	5		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	720		8.8	2.5	ng/L	5		537 (modified)	Total/NA
6:2 FTS - DL	610		22	11	ng/L	5		537 (modified)	Total/NA

## Client Sample ID: MW-03-20210715

## Lab Sample ID: 320-76376-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.2		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.99	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.85	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-04-20210716

## Lab Sample ID: 320-76376-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	300		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	68		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	23		1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.8		1.7	0.95	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.78	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.32	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.1		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	17		1.7	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.89	J	1.7	0.84	ng/L	1		537 (modified)	Total/NA
4:2 FTS	40		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1200		34	8.4	ng/L	20		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	880		34	10	ng/L	20		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	540		34	4.3	ng/L	20		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	900		34	15	ng/L	20		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

## Client Sample ID: MW-04-20210716 (Continued)

Lab Sample ID: 320-76376-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 FTS - DL	3600		86	43	ng/L	20		537 (modified)	Total/NA
8:2 FTS - DL	2300		34	7.9	ng/L	20		537 (modified)	Total/NA

## Client Sample ID: MW-05-20210715

Lab Sample ID: 320-76376-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	51		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	230		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	140		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	98		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	61		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	6.2		1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.9		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.61	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.2		1.8	0.50	ng/L	1		537 (modified)	Total/NA
6:2 FTS	120		4.6	2.3	ng/L	1		537 (modified)	Total/NA
8:2 FTS	96		1.8	0.42	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-06-20210715

Lab Sample ID: 320-76376-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.51	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-07-20210714

Lab Sample ID: 320-76376-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	8.4		1.7	0.17	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: PZ-01-20210715

Lab Sample ID: 320-76376-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.91	J	1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.6		1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	6.2		1.7	0.96	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	4.5		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTrDA)	5.2		1.7	1.1	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	3.5		1.7	0.64	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: DUP-01-20210715

Lab Sample ID: 320-76376-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	51		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	220		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	130		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	93		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	56		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	7.1		1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.8	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.50	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		1.9	0.52	ng/L	1		537 (modified)	Total/NA
6:2 FTS	120		4.8	2.4	ng/L	1		537 (modified)	Total/NA
8:2 FTS	81		1.9	0.44	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: EB-01-20210716**

**Lab Sample ID: 320-76376-10**

No Detections.

**Client Sample ID: FB-01-20210716**

**Lab Sample ID: 320-76376-11**

No Detections.

**Client Sample ID: PW-01-20210716**

**Lab Sample ID: 320-76376-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	110		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	260		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	140		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	170		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	17		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	3.9		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.73	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.6		1.8	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.8		1.8	0.87	ng/L	1		537 (modified)	Total/NA
4:2 FTS	7.7		1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	480		8.8	2.2	ng/L	5		537 (modified)	Total/NA
6:2 FTS - DL	1500		22	11	ng/L	5		537 (modified)	Total/NA
8:2 FTS - DL	530		8.8	2.0	ng/L	5		537 (modified)	Total/NA

**Client Sample ID: IPW-01-20210716**

**Lab Sample ID: 320-76376-13**

No Detections.

**Client Sample ID: IPW-02-20210716**

**Lab Sample ID: 320-76376-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonamide (FOSA)	1.2	J	2.2	1.1	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-01-20210716**

**Lab Sample ID: 320-76376-1**

Date Collected: 07/16/21 09:23

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	270		4.6	2.2	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluoroheptanoic acid (PFHpA)	210		1.8	0.23	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorooctanoic acid (PFOA)	160		1.8	0.78	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorononanoic acid (PFNA)	15		1.8	0.25	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorobutanesulfonic acid (PFBS)	0.83	J	1.8	0.18	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorohexanesulfonic acid (PFHxS)	0.64	J	1.8	0.52	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorooctanesulfonic acid (PFOS)	2.4		1.8	0.50	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		07/18/21 18:36	07/20/21 12:41	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		07/18/21 18:36	07/20/21 12:41	1
NEtFOSA	<0.80		1.8	0.80	ng/L		07/18/21 18:36	07/20/21 12:41	1
NMeFOSA	<0.40		1.8	0.40	ng/L		07/18/21 18:36	07/20/21 12:41	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		07/18/21 18:36	07/20/21 12:41	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		07/18/21 18:36	07/20/21 12:41	1
NMeFOSE	<1.3		3.7	1.3	ng/L		07/18/21 18:36	07/20/21 12:41	1
NEtFOSE	<0.78		1.8	0.78	ng/L		07/18/21 18:36	07/20/21 12:41	1
4:2 FTS	<0.22		1.8	0.22	ng/L		07/18/21 18:36	07/20/21 12:41	1
8:2 FTS	13		1.8	0.42	ng/L		07/18/21 18:36	07/20/21 12:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		07/18/21 18:36	07/20/21 12:41	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		07/18/21 18:36	07/20/21 12:41	1
9CI-PF3ONS	<0.22		1.8	0.22	ng/L		07/18/21 18:36	07/20/21 12:41	1
11CI-PF3OUdS	<0.29		1.8	0.29	ng/L		07/18/21 18:36	07/20/21 12:41	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	90		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C4 PFHpA	86		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C4 PFOA	88		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C5 PFNA	85		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C2 PFDA	98		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C2 PFUnA	90		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C2 PFDoA	91		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C2 PFTeDA	79		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C3 PFBS	86		25 - 150				07/18/21 18:36	07/20/21 12:41	1
18O2 PFHxS	93		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C4 PFOS	99		25 - 150				07/18/21 18:36	07/20/21 12:41	1
13C8 FOSA	98		10 - 150				07/18/21 18:36	07/20/21 12:41	1
d3-NMeFOSAA	77		25 - 150				07/18/21 18:36	07/20/21 12:41	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-01-20210716**

**Lab Sample ID: 320-76376-1**

Date Collected: 07/16/21 09:23

Matrix: Water

Date Received: 07/17/21 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	89		25 - 150	07/18/21 18:36	07/20/21 12:41	1
d-N-MeFOSA-M	74		10 - 150	07/18/21 18:36	07/20/21 12:41	1
d-N-EtFOSA-M	78		10 - 150	07/18/21 18:36	07/20/21 12:41	1
d7-N-MeFOSE-M	66		10 - 150	07/18/21 18:36	07/20/21 12:41	1
d9-N-EtFOSE-M	73		10 - 150	07/18/21 18:36	07/20/21 12:41	1
M2-4:2 FTS	81		25 - 150	07/18/21 18:36	07/20/21 12:41	1
M2-8:2 FTS	101		25 - 150	07/18/21 18:36	07/20/21 12:41	1
13C3 HFPO-DA	92		25 - 150	07/18/21 18:36	07/20/21 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1200		9.2	2.3	ng/L		07/18/21 18:36	07/21/21 16:37	5
Perfluorohexanoic acid (PFHxA)	530		9.2	2.7	ng/L		07/18/21 18:36	07/21/21 16:37	5
6:2 FTS	870		23	11	ng/L		07/18/21 18:36	07/21/21 16:37	5

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	73		25 - 150	07/18/21 18:36	07/21/21 16:37	5
13C2 PFHxA	88		25 - 150	07/18/21 18:36	07/21/21 16:37	5
M2-6:2 FTS	73		25 - 150	07/18/21 18:36	07/21/21 16:37	5

**Client Sample ID: MW-02-20210716**

**Lab Sample ID: 320-76376-2**

Date Collected: 07/16/21 10:51

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	240		4.4	2.1	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluoroheptanoic acid (PFHpA)	200		1.8	0.22	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorooctanoic acid (PFOA)	90		1.8	0.74	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorononanoic acid (PFNA)	4.8		1.8	0.24	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.8	0.96	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.8	0.48	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.8	1.1	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorobutanesulfonic acid (PFBS)	0.37	J	1.8	0.18	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.8	0.26	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.8	0.50	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorooctanesulfonic acid (PFOS)	0.87	J	1.8	0.47	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.8	0.32	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.8	0.85	ng/L		07/18/21 18:36	07/20/21 12:50	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		07/18/21 18:36	07/20/21 12:50	1
NEtFOSA	<0.76		1.8	0.76	ng/L		07/18/21 18:36	07/20/21 12:50	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/18/21 18:36	07/20/21 12:50	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-02-20210716**

**Lab Sample ID: 320-76376-2**

Date Collected: 07/16/21 10:51

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/18/21 18:36	07/20/21 12:50	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/18/21 18:36	07/20/21 12:50	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/18/21 18:36	07/20/21 12:50	1
NEtFOSE	<0.74		1.8	0.74	ng/L		07/18/21 18:36	07/20/21 12:50	1
<b>4:2 FTS</b>	<b>2.7</b>		1.8	0.21	ng/L		07/18/21 18:36	07/20/21 12:50	1
<b>8:2 FTS</b>	<b>39</b>		1.8	0.40	ng/L		07/18/21 18:36	07/20/21 12:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		07/18/21 18:36	07/20/21 12:50	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/18/21 18:36	07/20/21 12:50	1
9CI-PF3ONS	<0.21		1.8	0.21	ng/L		07/18/21 18:36	07/20/21 12:50	1
11CI-PF3OUdS	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 12:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	87		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C4 PFHpA	82		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C4 PFOA	91		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C5 PFNA	86		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C2 PFDA	102		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C2 PFUnA	95		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C2 PFDoA	90		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C2 PFTeDA	85		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C3 PFBS	82		25 - 150				07/18/21 18:36	07/20/21 12:50	1
18O2 PFHxS	90		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C4 PFOS	103		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C8 FOSA	93		10 - 150				07/18/21 18:36	07/20/21 12:50	1
d3-NMeFOSAA	80		25 - 150				07/18/21 18:36	07/20/21 12:50	1
d5-NEtFOSAA	82		25 - 150				07/18/21 18:36	07/20/21 12:50	1
d-N-MeFOSA-M	79		10 - 150				07/18/21 18:36	07/20/21 12:50	1
d-N-EtFOSA-M	76		10 - 150				07/18/21 18:36	07/20/21 12:50	1
d7-N-MeFOSE-M	62		10 - 150				07/18/21 18:36	07/20/21 12:50	1
d9-N-EtFOSE-M	67		10 - 150				07/18/21 18:36	07/20/21 12:50	1
M2-4:2 FTS	99		25 - 150				07/18/21 18:36	07/20/21 12:50	1
M2-8:2 FTS	136		25 - 150				07/18/21 18:36	07/20/21 12:50	1
13C3 HFPO-DA	88		25 - 150				07/18/21 18:36	07/20/21 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>1100</b>		8.8	2.1	ng/L		07/18/21 18:36	07/21/21 16:46	5
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>720</b>		8.8	2.5	ng/L		07/18/21 18:36	07/21/21 16:46	5
<b>6:2 FTS</b>	<b>610</b>		22	11	ng/L		07/18/21 18:36	07/21/21 16:46	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	78		25 - 150				07/18/21 18:36	07/21/21 16:46	5
13C2 PFHxA	91		25 - 150				07/18/21 18:36	07/21/21 16:46	5
M2-6:2 FTS	92		25 - 150				07/18/21 18:36	07/21/21 16:46	5

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-03-20210715**

**Lab Sample ID: 320-76376-3**

Date Collected: 07/15/21 11:52

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>6.2</b>		4.4	2.1	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.8	0.43	ng/L		07/18/21 18:36	07/20/21 13:00	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.99</b>	<b>J</b>	1.8	0.51	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorooctanoic acid (PFOA)	<0.75		1.8	0.75	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.8	0.96	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.8	0.48	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.8	1.1	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		07/18/21 18:36	07/20/21 13:00	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.85</b>	<b>J</b>	1.8	0.18	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.8	0.26	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.8	0.50	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.8	0.47	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.8	0.32	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.8	0.85	ng/L		07/18/21 18:36	07/20/21 13:00	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		07/18/21 18:36	07/20/21 13:00	1
NEtFOSA	<0.76		1.8	0.76	ng/L		07/18/21 18:36	07/20/21 13:00	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/18/21 18:36	07/20/21 13:00	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/18/21 18:36	07/20/21 13:00	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/18/21 18:36	07/20/21 13:00	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/18/21 18:36	07/20/21 13:00	1
NEtFOSE	<0.75		1.8	0.75	ng/L		07/18/21 18:36	07/20/21 13:00	1
4:2 FTS	<0.21		1.8	0.21	ng/L		07/18/21 18:36	07/20/21 13:00	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/18/21 18:36	07/20/21 13:00	1
8:2 FTS	<0.40		1.8	0.40	ng/L		07/18/21 18:36	07/20/21 13:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		07/18/21 18:36	07/20/21 13:00	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/18/21 18:36	07/20/21 13:00	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		07/18/21 18:36	07/20/21 13:00	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 13:00	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	84		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C5 PFPeA	69		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C2 PFHxA	90		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C4 PFHpA	79		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C4 PFOA	86		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C5 PFNA	77		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C2 PFDA	92		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C2 PFUnA	86		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C2 PFDoA	91		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C2 PFTeDA	82		25 - 150				07/18/21 18:36	07/20/21 13:00	1
13C3 PFBS	82		25 - 150				07/18/21 18:36	07/20/21 13:00	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-03-20210715**

**Lab Sample ID: 320-76376-3**

Date Collected: 07/15/21 11:52

Matrix: Water

Date Received: 07/17/21 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	81		25 - 150	07/18/21 18:36	07/20/21 13:00	1
13C4 PFOS	97		25 - 150	07/18/21 18:36	07/20/21 13:00	1
13C8 FOSA	88		10 - 150	07/18/21 18:36	07/20/21 13:00	1
d3-NMeFOSAA	72		25 - 150	07/18/21 18:36	07/20/21 13:00	1
d5-NEtFOSAA	88		25 - 150	07/18/21 18:36	07/20/21 13:00	1
d-N-MeFOSA-M	65		10 - 150	07/18/21 18:36	07/20/21 13:00	1
d-N-EtFOSA-M	70		10 - 150	07/18/21 18:36	07/20/21 13:00	1
d7-N-MeFOSE-M	63		10 - 150	07/18/21 18:36	07/20/21 13:00	1
d9-N-EtFOSE-M	66		10 - 150	07/18/21 18:36	07/20/21 13:00	1
M2-4:2 FTS	70		25 - 150	07/18/21 18:36	07/20/21 13:00	1
M2-6:2 FTS	77		25 - 150	07/18/21 18:36	07/20/21 13:00	1
M2-8:2 FTS	118		25 - 150	07/18/21 18:36	07/20/21 13:00	1
13C3 HFPO-DA	83		25 - 150	07/18/21 18:36	07/20/21 13:00	1

**Client Sample ID: MW-04-20210716**

**Lab Sample ID: 320-76376-4**

Date Collected: 07/16/21 12:14

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	300		4.3	2.1	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorononanoic acid (PFNA)	68		1.7	0.23	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorodecanoic acid (PFDA)	23		1.7	0.27	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluoroundecanoic acid (PFUnA)	1.8		1.7	0.95	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorobutanesulfonic acid (PFBS)	0.78	J	1.7	0.17	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluoropentanesulfonic acid (PFPeS)	0.32	J	1.7	0.26	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorohexanesulfonic acid (PFHxS)	3.1		1.7	0.49	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorooctanesulfonic acid (PFOS)	17		1.7	0.47	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		07/18/21 18:36	07/20/21 13:09	1
Perfluorooctanesulfonamide (FOSA)	0.89	J	1.7	0.84	ng/L		07/18/21 18:36	07/20/21 13:09	1
NEtFOSA	<0.75		1.7	0.75	ng/L		07/18/21 18:36	07/20/21 13:09	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/18/21 18:36	07/20/21 13:09	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		07/18/21 18:36	07/20/21 13:09	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		07/18/21 18:36	07/20/21 13:09	1
NMeFOSE	<1.2		3.4	1.2	ng/L		07/18/21 18:36	07/20/21 13:09	1
NEtFOSE	<0.73		1.7	0.73	ng/L		07/18/21 18:36	07/20/21 13:09	1
4:2 FTS	40		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 13:09	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-04-20210716**

**Lab Sample ID: 320-76376-4**

Date Collected: 07/16/21 12:14

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		07/18/21 18:36	07/20/21 13:09	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		07/18/21 18:36	07/20/21 13:09	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 13:09	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		07/18/21 18:36	07/20/21 13:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	108		25 - 150				07/18/21 18:36	07/20/21 13:09	1
13C5 PFNA	98		25 - 150				07/18/21 18:36	07/20/21 13:09	1
13C2 PFDA	103		25 - 150				07/18/21 18:36	07/20/21 13:09	1
13C2 PFUnA	115		25 - 150				07/18/21 18:36	07/20/21 13:09	1
13C2 PFDoA	119		25 - 150				07/18/21 18:36	07/20/21 13:09	1
13C2 PFTeDA	114		25 - 150				07/18/21 18:36	07/20/21 13:09	1
13C3 PFBS	111		25 - 150				07/18/21 18:36	07/20/21 13:09	1
18O2 PFHxS	113		25 - 150				07/18/21 18:36	07/20/21 13:09	1
13C4 PFOS	120		25 - 150				07/18/21 18:36	07/20/21 13:09	1
13C8 FOSA	111		10 - 150				07/18/21 18:36	07/20/21 13:09	1
d3-NMeFOSAA	101		25 - 150				07/18/21 18:36	07/20/21 13:09	1
d5-NEtFOSAA	111		25 - 150				07/18/21 18:36	07/20/21 13:09	1
d-N-MeFOSA-M	94		10 - 150				07/18/21 18:36	07/20/21 13:09	1
d-N-EtFOSA-M	99		10 - 150				07/18/21 18:36	07/20/21 13:09	1
d7-N-MeFOSE-M	87		10 - 150				07/18/21 18:36	07/20/21 13:09	1
d9-N-EtFOSE-M	98		10 - 150				07/18/21 18:36	07/20/21 13:09	1
M2-4:2 FTS	88		25 - 150				07/18/21 18:36	07/20/21 13:09	1
13C3 HFPO-DA	106		25 - 150				07/18/21 18:36	07/20/21 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1200		34	8.4	ng/L		07/18/21 18:36	07/21/21 16:56	20
Perfluorohexanoic acid (PFHxA)	880		34	10	ng/L		07/18/21 18:36	07/21/21 16:56	20
Perfluoroheptanoic acid (PFHpA)	540		34	4.3	ng/L		07/18/21 18:36	07/21/21 16:56	20
Perfluorooctanoic acid (PFOA)	900		34	15	ng/L		07/18/21 18:36	07/21/21 16:56	20
6:2 FTS	3600		86	43	ng/L		07/18/21 18:36	07/21/21 16:56	20
8:2 FTS	2300		34	7.9	ng/L		07/18/21 18:36	07/21/21 16:56	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	82		25 - 150				07/18/21 18:36	07/21/21 16:56	20
13C2 PFHxA	91		25 - 150				07/18/21 18:36	07/21/21 16:56	20
13C4 PFHpA	79		25 - 150				07/18/21 18:36	07/21/21 16:56	20
13C4 PFOA	70		25 - 150				07/18/21 18:36	07/21/21 16:56	20
M2-6:2 FTS	139		25 - 150				07/18/21 18:36	07/21/21 16:56	20
M2-8:2 FTS	108		25 - 150				07/18/21 18:36	07/21/21 16:56	20

**Client Sample ID: MW-05-20210715**

**Lab Sample ID: 320-76376-5**

Date Collected: 07/15/21 14:56

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	51		4.6	2.2	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluoropentanoic acid (PFPeA)	230		1.8	0.45	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorohexanoic acid (PFHxA)	140		1.8	0.53	ng/L		07/18/21 18:36	07/20/21 13:18	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-05-20210715**

**Lab Sample ID: 320-76376-5**

Date Collected: 07/15/21 14:56

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	98		1.8	0.23	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorooctanoic acid (PFOA)	61		1.8	0.78	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorononanoic acid (PFNA)	6.2		1.8	0.25	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorodecanoic acid (PFDA)	1.9		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorobutanesulfonic acid (PFBS)	0.61	J	1.8	0.18	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorooctanesulfonic acid (PFOS)	3.2		1.8	0.50	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		07/18/21 18:36	07/20/21 13:18	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		07/18/21 18:36	07/20/21 13:18	1
NEtFOSA	<0.80		1.8	0.80	ng/L		07/18/21 18:36	07/20/21 13:18	1
NMeFOSA	<0.39		1.8	0.39	ng/L		07/18/21 18:36	07/20/21 13:18	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		07/18/21 18:36	07/20/21 13:18	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		07/18/21 18:36	07/20/21 13:18	1
NMeFOSE	<1.3		3.7	1.3	ng/L		07/18/21 18:36	07/20/21 13:18	1
NEtFOSE	<0.78		1.8	0.78	ng/L		07/18/21 18:36	07/20/21 13:18	1
4:2 FTS	<0.22		1.8	0.22	ng/L		07/18/21 18:36	07/20/21 13:18	1
6:2 FTS	120		4.6	2.3	ng/L		07/18/21 18:36	07/20/21 13:18	1
8:2 FTS	96		1.8	0.42	ng/L		07/18/21 18:36	07/20/21 13:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		07/18/21 18:36	07/20/21 13:18	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		07/18/21 18:36	07/20/21 13:18	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		07/18/21 18:36	07/20/21 13:18	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		07/18/21 18:36	07/20/21 13:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	84		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C5 PFPeA	62		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C2 PFHxA	91		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C4 PFHpA	84		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C4 PFOA	92		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C5 PFNA	84		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C2 PFDA	104		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C2 PFUnA	98		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C2 PFDoA	100		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C2 PFTeDA	92		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C3 PFBS	81		25 - 150	07/18/21 18:36	07/20/21 13:18	1
18O2 PFHxS	92		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C4 PFOS	99		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C8 FOSA	99		10 - 150	07/18/21 18:36	07/20/21 13:18	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-05-20210715**

**Lab Sample ID: 320-76376-5**

Date Collected: 07/15/21 14:56

Matrix: Water

Date Received: 07/17/21 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	78		25 - 150	07/18/21 18:36	07/20/21 13:18	1
d5-NEtFOSAA	89		25 - 150	07/18/21 18:36	07/20/21 13:18	1
d-N-MeFOSA-M	78		10 - 150	07/18/21 18:36	07/20/21 13:18	1
d-N-EtFOSA-M	79		10 - 150	07/18/21 18:36	07/20/21 13:18	1
d7-N-MeFOSE-M	66		10 - 150	07/18/21 18:36	07/20/21 13:18	1
d9-N-EtFOSE-M	75		10 - 150	07/18/21 18:36	07/20/21 13:18	1
M2-4:2 FTS	74		25 - 150	07/18/21 18:36	07/20/21 13:18	1
M2-6:2 FTS	76		25 - 150	07/18/21 18:36	07/20/21 13:18	1
M2-8:2 FTS	110		25 - 150	07/18/21 18:36	07/20/21 13:18	1
13C3 HFPO-DA	84		25 - 150	07/18/21 18:36	07/20/21 13:18	1

**Client Sample ID: MW-06-20210715**

**Lab Sample ID: 320-76376-6**

Date Collected: 07/15/21 09:29

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		07/18/21 18:36	07/20/21 13:28	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.51</b>	<b>J</b>	1.8	0.51	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorooctanoic acid (PFOA)	<0.75		1.8	0.75	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		07/18/21 18:36	07/20/21 13:28	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		07/18/21 18:36	07/20/21 13:28	1
NEtFOSA	<0.77		1.8	0.77	ng/L		07/18/21 18:36	07/20/21 13:28	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/18/21 18:36	07/20/21 13:28	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/18/21 18:36	07/20/21 13:28	1
NEtFOSAA	<1.2		4.4	1.2	ng/L		07/18/21 18:36	07/20/21 13:28	1
NMeFOSE	<1.2		3.6	1.2	ng/L		07/18/21 18:36	07/20/21 13:28	1
NEtFOSE	<0.75		1.8	0.75	ng/L		07/18/21 18:36	07/20/21 13:28	1
4:2 FTS	<0.21		1.8	0.21	ng/L		07/18/21 18:36	07/20/21 13:28	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/18/21 18:36	07/20/21 13:28	1
8:2 FTS	<0.41		1.8	0.41	ng/L		07/18/21 18:36	07/20/21 13:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		07/18/21 18:36	07/20/21 13:28	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-06-20210715**

**Lab Sample ID: 320-76376-6**

**Date Collected: 07/15/21 09:29**

**Matrix: Water**

**Date Received: 07/17/21 09:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		07/18/21 18:36	07/20/21 13:28	1
9CI-PF3ONS	<0.21		1.8	0.21	ng/L		07/18/21 18:36	07/20/21 13:28	1
11CI-PF3OUdS	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 13:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	87		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C5 PFPeA	66		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C2 PFHxA	101		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C4 PFHpA	87		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C4 PFOA	93		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C5 PFNA	90		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C2 PFDA	98		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C2 PFUnA	99		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C2 PFDoA	93		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C2 PFTeDA	87		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C3 PFBS	77		25 - 150				07/18/21 18:36	07/20/21 13:28	1
18O2 PFHxS	89		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C4 PFOS	97		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C8 FOSA	88		10 - 150				07/18/21 18:36	07/20/21 13:28	1
d3-NMeFOSAA	72		25 - 150				07/18/21 18:36	07/20/21 13:28	1
d5-NEtFOSAA	89		25 - 150				07/18/21 18:36	07/20/21 13:28	1
d-N-MeFOSA-M	73		10 - 150				07/18/21 18:36	07/20/21 13:28	1
d-N-EtFOSA-M	70		10 - 150				07/18/21 18:36	07/20/21 13:28	1
d7-N-MeFOSE-M	65		10 - 150				07/18/21 18:36	07/20/21 13:28	1
d9-N-EtFOSE-M	71		10 - 150				07/18/21 18:36	07/20/21 13:28	1
M2-4:2 FTS	82		25 - 150				07/18/21 18:36	07/20/21 13:28	1
M2-6:2 FTS	86		25 - 150				07/18/21 18:36	07/20/21 13:28	1
M2-8:2 FTS	110		25 - 150				07/18/21 18:36	07/20/21 13:28	1
13C3 HFPO-DA	84		25 - 150				07/18/21 18:36	07/20/21 13:28	1

**Client Sample ID: MW-07-20210714**

**Lab Sample ID: 320-76376-7**

**Date Collected: 07/14/21 13:18**

**Matrix: Water**

**Date Received: 07/17/21 09:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.7	0.43	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.7	0.51	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.7	0.22	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorooctanoic acid (PFOA)	<0.74		1.7	0.74	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorononanoic acid (PFNA)	<0.24		1.7	0.24	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.7	0.96	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.7	1.1	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.7	0.64	ng/L		07/18/21 18:36	07/20/21 13:37	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>8.4</b>		1.7	0.17	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/18/21 18:36	07/20/21 13:37	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-07-20210714**

**Lab Sample ID: 320-76376-7**

**Date Collected: 07/14/21 13:18**

**Matrix: Water**

**Date Received: 07/17/21 09:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.7	0.50	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.7	0.17	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.7	0.47	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.7	0.85	ng/L		07/18/21 18:36	07/20/21 13:37	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		07/18/21 18:36	07/20/21 13:37	1
NEtFOSA	<0.76		1.7	0.76	ng/L		07/18/21 18:36	07/20/21 13:37	1
NMeFOSA	<0.38		1.7	0.38	ng/L		07/18/21 18:36	07/20/21 13:37	1
NMeFOSAA	<1.0		4.4	1.0	ng/L		07/18/21 18:36	07/20/21 13:37	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/18/21 18:36	07/20/21 13:37	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/18/21 18:36	07/20/21 13:37	1
NEtFOSE	<0.74		1.7	0.74	ng/L		07/18/21 18:36	07/20/21 13:37	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 13:37	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/18/21 18:36	07/20/21 13:37	1
8:2 FTS	<0.40		1.7	0.40	ng/L		07/18/21 18:36	07/20/21 13:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		07/18/21 18:36	07/20/21 13:37	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/18/21 18:36	07/20/21 13:37	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 13:37	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		07/18/21 18:36	07/20/21 13:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C5 PFPeA	70		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C2 PFHxA	107		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C4 PFHpA	88		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C4 PFOA	97		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C5 PFNA	91		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C2 PFDA	98		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C2 PFUnA	93		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C2 PFDoA	112		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C2 PFTeDA	99		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C3 PFBS	80		25 - 150	07/18/21 18:36	07/20/21 13:37	1
18O2 PFHxS	98		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C4 PFOS	101		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C8 FOSA	100		10 - 150	07/18/21 18:36	07/20/21 13:37	1
d3-NMeFOSAA	75		25 - 150	07/18/21 18:36	07/20/21 13:37	1
d5-NEtFOSAA	94		25 - 150	07/18/21 18:36	07/20/21 13:37	1
d-N-MeFOSA-M	80		10 - 150	07/18/21 18:36	07/20/21 13:37	1
d-N-EtFOSA-M	84		10 - 150	07/18/21 18:36	07/20/21 13:37	1
d7-N-MeFOSE-M	74		10 - 150	07/18/21 18:36	07/20/21 13:37	1
d9-N-EtFOSE-M	84		10 - 150	07/18/21 18:36	07/20/21 13:37	1
M2-4:2 FTS	74		25 - 150	07/18/21 18:36	07/20/21 13:37	1
M2-6:2 FTS	82		25 - 150	07/18/21 18:36	07/20/21 13:37	1
M2-8:2 FTS	108		25 - 150	07/18/21 18:36	07/20/21 13:37	1
13C3 HFPO-DA	83		25 - 150	07/18/21 18:36	07/20/21 13:37	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: PZ-01-20210715**

**Lab Sample ID: 320-76376-8**

Date Collected: 07/15/21 12:53

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.7	0.43	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.7	0.51	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.7	0.22	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluorooctanoic acid (PFOA)	<0.74		1.7	0.74	ng/L		07/18/21 18:36	07/20/21 14:15	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>0.91</b>	<b>J</b>	1.7	0.24	ng/L		07/18/21 18:36	07/20/21 14:15	1
<b>Perfluorodecanoic acid (PFDA)</b>	<b>2.6</b>		1.7	0.27	ng/L		07/18/21 18:36	07/20/21 14:15	1
<b>Perfluoroundecanoic acid (PFUnA)</b>	<b>6.2</b>		1.7	0.96	ng/L		07/18/21 18:36	07/20/21 14:15	1
<b>Perfluorododecanoic acid (PFDoA)</b>	<b>4.5</b>		1.7	0.48	ng/L		07/18/21 18:36	07/20/21 14:15	1
<b>Perfluorotridecanoic acid (PFTrDA)</b>	<b>5.2</b>		1.7	1.1	ng/L		07/18/21 18:36	07/20/21 14:15	1
<b>Perfluorotetradecanoic acid (PFTeA)</b>	<b>3.5</b>		1.7	0.64	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.7	0.50	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.7	0.17	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.7	0.47	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		07/18/21 18:36	07/20/21 14:15	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		07/18/21 18:36	07/20/21 14:15	1
NEtFOSA	<0.76		1.7	0.76	ng/L		07/18/21 18:36	07/20/21 14:15	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/18/21 18:36	07/20/21 14:15	1
NMeFOSAA	<1.0		4.4	1.0	ng/L		07/18/21 18:36	07/20/21 14:15	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/18/21 18:36	07/20/21 14:15	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/18/21 18:36	07/20/21 14:15	1
NEtFOSE	<0.74		1.7	0.74	ng/L		07/18/21 18:36	07/20/21 14:15	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 14:15	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/18/21 18:36	07/20/21 14:15	1
8:2 FTS	<0.40		1.7	0.40	ng/L		07/18/21 18:36	07/20/21 14:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		07/18/21 18:36	07/20/21 14:15	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/18/21 18:36	07/20/21 14:15	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 14:15	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		07/18/21 18:36	07/20/21 14:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150				07/18/21 18:36	07/20/21 14:15	1
13C5 PFPeA	78		25 - 150				07/18/21 18:36	07/20/21 14:15	1
13C2 PFHxA	99		25 - 150				07/18/21 18:36	07/20/21 14:15	1
13C4 PFHpA	89		25 - 150				07/18/21 18:36	07/20/21 14:15	1
13C4 PFOA	93		25 - 150				07/18/21 18:36	07/20/21 14:15	1
13C5 PFNA	86		25 - 150				07/18/21 18:36	07/20/21 14:15	1
13C2 PFDA	100		25 - 150				07/18/21 18:36	07/20/21 14:15	1
13C2 PFUnA	98		25 - 150				07/18/21 18:36	07/20/21 14:15	1
13C2 PFDoA	98		25 - 150				07/18/21 18:36	07/20/21 14:15	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: PZ-01-20210715**

**Lab Sample ID: 320-76376-8**

Date Collected: 07/15/21 12:53

Matrix: Water

Date Received: 07/17/21 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	93		25 - 150	07/18/21 18:36	07/20/21 14:15	1
13C3 PFBS	87		25 - 150	07/18/21 18:36	07/20/21 14:15	1
18O2 PFHxS	92		25 - 150	07/18/21 18:36	07/20/21 14:15	1
13C4 PFOS	104		25 - 150	07/18/21 18:36	07/20/21 14:15	1
13C8 FOSA	99		10 - 150	07/18/21 18:36	07/20/21 14:15	1
d3-NMeFOSAA	82		25 - 150	07/18/21 18:36	07/20/21 14:15	1
d5-NEtFOSAA	94		25 - 150	07/18/21 18:36	07/20/21 14:15	1
d-N-MeFOSA-M	82		10 - 150	07/18/21 18:36	07/20/21 14:15	1
d-N-EtFOSA-M	81		10 - 150	07/18/21 18:36	07/20/21 14:15	1
d7-N-MeFOSE-M	72		10 - 150	07/18/21 18:36	07/20/21 14:15	1
d9-N-EtFOSE-M	77		10 - 150	07/18/21 18:36	07/20/21 14:15	1
M2-4:2 FTS	73		25 - 150	07/18/21 18:36	07/20/21 14:15	1
M2-6:2 FTS	79		25 - 150	07/18/21 18:36	07/20/21 14:15	1
M2-8:2 FTS	109		25 - 150	07/18/21 18:36	07/20/21 14:15	1
13C3 HFPO-DA	85		25 - 150	07/18/21 18:36	07/20/21 14:15	1

**Client Sample ID: DUP-01-20210715**

**Lab Sample ID: 320-76376-9**

Date Collected: 07/15/21 00:00

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	51		4.8	2.3	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluoropentanoic acid (PFPeA)	220		1.9	0.47	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorohexanoic acid (PFHxA)	130		1.9	0.56	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluoroheptanoic acid (PFHpA)	93		1.9	0.24	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorooctanoic acid (PFOA)	56		1.9	0.82	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorononanoic acid (PFNA)	7.1		1.9	0.26	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorodecanoic acid (PFDA)	1.8 J		1.9	0.30	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorobutanesulfonic acid (PFBS)	0.50 J		1.9	0.19	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorooctanesulfonic acid (PFOS)	2.9		1.9	0.52	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		07/18/21 18:36	07/20/21 14:24	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		07/18/21 18:36	07/20/21 14:24	1
NEtFOSA	<0.84		1.9	0.84	ng/L		07/18/21 18:36	07/20/21 14:24	1
NMeFOSA	<0.41		1.9	0.41	ng/L		07/18/21 18:36	07/20/21 14:24	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		07/18/21 18:36	07/20/21 14:24	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		07/18/21 18:36	07/20/21 14:24	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: DUP-01-20210715**

**Lab Sample ID: 320-76376-9**

**Date Collected: 07/15/21 00:00**

**Matrix: Water**

**Date Received: 07/17/21 09:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	<1.3		3.8	1.3	ng/L		07/18/21 18:36	07/20/21 14:24	1
NEtFOSE	<0.82		1.9	0.82	ng/L		07/18/21 18:36	07/20/21 14:24	1
4:2 FTS	<0.23		1.9	0.23	ng/L		07/18/21 18:36	07/20/21 14:24	1
<b>6:2 FTS</b>	<b>120</b>		4.8	2.4	ng/L		07/18/21 18:36	07/20/21 14:24	1
<b>8:2 FTS</b>	<b>81</b>		1.9	0.44	ng/L		07/18/21 18:36	07/20/21 14:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		07/18/21 18:36	07/20/21 14:24	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		07/18/21 18:36	07/20/21 14:24	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		07/18/21 18:36	07/20/21 14:24	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		07/18/21 18:36	07/20/21 14:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	87		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C5 PFPeA	65		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C2 PFHxA	91		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C4 PFHpA	83		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C4 PFOA	92		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C5 PFNA	83		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C2 PFDA	97		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C2 PFUnA	96		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C2 PFDoA	94		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C2 PFTeDA	91		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C3 PFBS	86		25 - 150				07/18/21 18:36	07/20/21 14:24	1
18O2 PFHxS	88		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C4 PFOS	94		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C8 FOSA	92		10 - 150				07/18/21 18:36	07/20/21 14:24	1
d3-NMeFOSAA	81		25 - 150				07/18/21 18:36	07/20/21 14:24	1
d5-NEtFOSAA	87		25 - 150				07/18/21 18:36	07/20/21 14:24	1
d-N-MeFOSA-M	71		10 - 150				07/18/21 18:36	07/20/21 14:24	1
d-N-EtFOSA-M	70		10 - 150				07/18/21 18:36	07/20/21 14:24	1
d7-N-MeFOSE-M	67		10 - 150				07/18/21 18:36	07/20/21 14:24	1
d9-N-EtFOSE-M	72		10 - 150				07/18/21 18:36	07/20/21 14:24	1
M2-4:2 FTS	76		25 - 150				07/18/21 18:36	07/20/21 14:24	1
M2-6:2 FTS	73		25 - 150				07/18/21 18:36	07/20/21 14:24	1
M2-8:2 FTS	125		25 - 150				07/18/21 18:36	07/20/21 14:24	1
13C3 HFPO-DA	88		25 - 150				07/18/21 18:36	07/20/21 14:24	1

**Client Sample ID: EB-01-20210716**

**Lab Sample ID: 320-76376-10**

**Date Collected: 07/16/21 11:50**

**Matrix: Water**

**Date Received: 07/17/21 09:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.3	2.1	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		07/18/21 18:36	07/20/21 14:33	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: EB-01-20210716**

**Lab Sample ID: 320-76376-10**

**Date Collected: 07/16/21 11:50**

**Matrix: Water**

**Date Received: 07/17/21 09:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		07/18/21 18:36	07/20/21 14:33	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		07/18/21 18:36	07/20/21 14:33	1
NEtFOSA	<0.75		1.7	0.75	ng/L		07/18/21 18:36	07/20/21 14:33	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/18/21 18:36	07/20/21 14:33	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		07/18/21 18:36	07/20/21 14:33	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		07/18/21 18:36	07/20/21 14:33	1
NMeFOSE	<1.2		3.4	1.2	ng/L		07/18/21 18:36	07/20/21 14:33	1
NEtFOSE	<0.73		1.7	0.73	ng/L		07/18/21 18:36	07/20/21 14:33	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 14:33	1
6:2 FTS	<2.1		4.3	2.1	ng/L		07/18/21 18:36	07/20/21 14:33	1
8:2 FTS	<0.40		1.7	0.40	ng/L		07/18/21 18:36	07/20/21 14:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		07/18/21 18:36	07/20/21 14:33	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		07/18/21 18:36	07/20/21 14:33	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 14:33	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		07/18/21 18:36	07/20/21 14:33	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	88		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C5 PFPeA	78		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C2 PFHxA	91		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C4 PFHpA	88		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C4 PFOA	97		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C5 PFNA	87		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C2 PFDA	101		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C2 PFUnA	98		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C2 PFDoA	94		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C2 PFTeDA	88		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C3 PFBS	83		25 - 150				07/18/21 18:36	07/20/21 14:33	1
18O2 PFHxS	94		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C4 PFOS	97		25 - 150				07/18/21 18:36	07/20/21 14:33	1
13C8 FOSA	90		10 - 150				07/18/21 18:36	07/20/21 14:33	1
d3-NMeFOSAA	76		25 - 150				07/18/21 18:36	07/20/21 14:33	1
d5-NEtFOSAA	90		25 - 150				07/18/21 18:36	07/20/21 14:33	1
d-N-MeFOSA-M	78		10 - 150				07/18/21 18:36	07/20/21 14:33	1
d-N-EtFOSA-M	77		10 - 150				07/18/21 18:36	07/20/21 14:33	1
d7-N-MeFOSE-M	75		10 - 150				07/18/21 18:36	07/20/21 14:33	1
d9-N-EtFOSE-M	78		10 - 150				07/18/21 18:36	07/20/21 14:33	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: EB-01-20210716**

**Lab Sample ID: 320-76376-10**

Date Collected: 07/16/21 11:50

Matrix: Water

Date Received: 07/17/21 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	65		25 - 150	07/18/21 18:36	07/20/21 14:33	1
M2-6:2 FTS	78		25 - 150	07/18/21 18:36	07/20/21 14:33	1
M2-8:2 FTS	143		25 - 150	07/18/21 18:36	07/20/21 14:33	1
13C3 HFPO-DA	84		25 - 150	07/18/21 18:36	07/20/21 14:33	1

**Client Sample ID: FB-01-20210716**

**Lab Sample ID: 320-76376-11**

Date Collected: 07/16/21 11:45

Matrix: Water

Date Received: 07/17/21 09:05

**Method: 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		07/18/21 18:36	07/20/21 14:43	1
Perfluoropentanoic acid (PFPeA)	<0.50		2.0	0.50	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorohexanoic acid (PFHxA)	<0.59		2.0	0.59	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.0	0.26	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorooctanoic acid (PFOA)	<0.87		2.0	0.87	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorononanoic acid (PFNA)	<0.28		2.0	0.28	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorodecanoic acid (PFDA)	<0.32		2.0	0.32	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.0	0.56	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.0	1.3	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorotetradecanoic acid (PFTeA)	<0.75		2.0	0.75	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.0	0.31	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.58		2.0	0.58	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.55		2.0	0.55	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.0	0.38	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.0	0.33	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.99		2.0	0.99	ng/L		07/18/21 18:36	07/20/21 14:43	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.0	1.0	ng/L		07/18/21 18:36	07/20/21 14:43	1
NEtFOSA	<0.89		2.0	0.89	ng/L		07/18/21 18:36	07/20/21 14:43	1
NMeFOSA	<0.44		2.0	0.44	ng/L		07/18/21 18:36	07/20/21 14:43	1
NMeFOSAA	<1.2		5.1	1.2	ng/L		07/18/21 18:36	07/20/21 14:43	1
NEtFOSAA	<1.3		5.1	1.3	ng/L		07/18/21 18:36	07/20/21 14:43	1
NMeFOSE	<1.4		4.1	1.4	ng/L		07/18/21 18:36	07/20/21 14:43	1
NEtFOSE	<0.87		2.0	0.87	ng/L		07/18/21 18:36	07/20/21 14:43	1
4:2 FTS	<0.25		2.0	0.25	ng/L		07/18/21 18:36	07/20/21 14:43	1
6:2 FTS	<2.6		5.1	2.6	ng/L		07/18/21 18:36	07/20/21 14:43	1
8:2 FTS	<0.47		2.0	0.47	ng/L		07/18/21 18:36	07/20/21 14:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.41		2.0	0.41	ng/L		07/18/21 18:36	07/20/21 14:43	1
HFPO-DA (GenX)	<1.5		4.1	1.5	ng/L		07/18/21 18:36	07/20/21 14:43	1
9Cl-PF3ONS	<0.25		2.0	0.25	ng/L		07/18/21 18:36	07/20/21 14:43	1
11Cl-PF3OUdS	<0.33		2.0	0.33	ng/L		07/18/21 18:36	07/20/21 14:43	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	87		25 - 150	07/18/21 18:36	07/20/21 14:43	1			
13C5 PFPeA	78		25 - 150	07/18/21 18:36	07/20/21 14:43	1			

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: FB-01-20210716**

**Lab Sample ID: 320-76376-11**

Date Collected: 07/16/21 11:45

Matrix: Water

Date Received: 07/17/21 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C4 PFHpA	93		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C4 PFOA	94		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C5 PFNA	87		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C2 PFDA	97		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C2 PFUnA	98		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C2 PFDoA	98		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C2 PFTeDA	90		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C3 PFBS	82		25 - 150	07/18/21 18:36	07/20/21 14:43	1
18O2 PFHxS	91		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C4 PFOS	91		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C8 FOSA	93		10 - 150	07/18/21 18:36	07/20/21 14:43	1
d3-NMeFOSAA	80		25 - 150	07/18/21 18:36	07/20/21 14:43	1
d5-NEtFOSAA	88		25 - 150	07/18/21 18:36	07/20/21 14:43	1
d-N-MeFOSA-M	74		10 - 150	07/18/21 18:36	07/20/21 14:43	1
d-N-EtFOSA-M	76		10 - 150	07/18/21 18:36	07/20/21 14:43	1
d7-N-MeFOSE-M	71		10 - 150	07/18/21 18:36	07/20/21 14:43	1
d9-N-EtFOSE-M	78		10 - 150	07/18/21 18:36	07/20/21 14:43	1
M2-4:2 FTS	66		25 - 150	07/18/21 18:36	07/20/21 14:43	1
M2-6:2 FTS	75		25 - 150	07/18/21 18:36	07/20/21 14:43	1
M2-8:2 FTS	127		25 - 150	07/18/21 18:36	07/20/21 14:43	1
13C3 HFPO-DA	90		25 - 150	07/18/21 18:36	07/20/21 14:43	1

**Client Sample ID: PW-01-20210716**

**Lab Sample ID: 320-76376-12**

Date Collected: 07/16/21 12:58

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	110		4.4	2.1	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorohexanoic acid (PFHxA)	260		1.8	0.51	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluoroheptanoic acid (PFHpA)	140		1.8	0.22	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorooctanoic acid (PFOA)	170		1.8	0.75	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorononanoic acid (PFNA)	17		1.8	0.24	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorodecanoic acid (PFDA)	3.9		1.8	0.27	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorotridecanoic acid (PFTeDA)	<1.1		1.8	1.1	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorobutanesulfonic acid (PFBS)	0.73	J	1.8	0.18	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	1.8	0.50	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorooctanesulfonic acid (PFOS)	6.6		1.8	0.48	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/18/21 18:36	07/20/21 14:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 14:52	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: PW-01-20210716**

**Lab Sample ID: 320-76376-12**

Date Collected: 07/16/21 12:58

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		07/18/21 18:36	07/20/21 14:52	1
<b>Perfluorooctanesulfonamide (FOSA)</b>	<b>1.8</b>		1.8	0.87	ng/L		07/18/21 18:36	07/20/21 14:52	1
NEtFOSA	<0.77		1.8	0.77	ng/L		07/18/21 18:36	07/20/21 14:52	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/18/21 18:36	07/20/21 14:52	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/18/21 18:36	07/20/21 14:52	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/18/21 18:36	07/20/21 14:52	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/18/21 18:36	07/20/21 14:52	1
NEtFOSE	<0.75		1.8	0.75	ng/L		07/18/21 18:36	07/20/21 14:52	1
<b>4:2 FTS</b>	<b>7.7</b>		1.8	0.21	ng/L		07/18/21 18:36	07/20/21 14:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		07/18/21 18:36	07/20/21 14:52	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/18/21 18:36	07/20/21 14:52	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		07/18/21 18:36	07/20/21 14:52	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		07/18/21 18:36	07/20/21 14:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C2 PFHxA	100		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C4 PFHpA	96		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C4 PFOA	85		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C5 PFNA	88		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C2 PFDA	102		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C2 PFUnA	105		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C2 PFDoA	99		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C2 PFTeDA	96		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C3 PFBS	86		25 - 150				07/18/21 18:36	07/20/21 14:52	1
18O2 PFHxS	95		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C4 PFOS	97		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C8 FOSA	101		10 - 150				07/18/21 18:36	07/20/21 14:52	1
d3-NMeFOSAA	81		25 - 150				07/18/21 18:36	07/20/21 14:52	1
d5-NEtFOSAA	98		25 - 150				07/18/21 18:36	07/20/21 14:52	1
d-N-MeFOSA-M	78		10 - 150				07/18/21 18:36	07/20/21 14:52	1
d-N-EtFOSA-M	72		10 - 150				07/18/21 18:36	07/20/21 14:52	1
d7-N-MeFOSE-M	78		10 - 150				07/18/21 18:36	07/20/21 14:52	1
d9-N-EtFOSE-M	77		10 - 150				07/18/21 18:36	07/20/21 14:52	1
M2-4:2 FTS	72		25 - 150				07/18/21 18:36	07/20/21 14:52	1
13C3 HFPO-DA	99		25 - 150				07/18/21 18:36	07/20/21 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>480</b>		8.8	2.2	ng/L		07/18/21 18:36	07/21/21 17:05	5
<b>6:2 FTS</b>	<b>1500</b>		22	11	ng/L		07/18/21 18:36	07/21/21 17:05	5
<b>8:2 FTS</b>	<b>530</b>		8.8	2.0	ng/L		07/18/21 18:36	07/21/21 17:05	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	74		25 - 150				07/18/21 18:36	07/21/21 17:05	5
M2-6:2 FTS	102		25 - 150				07/18/21 18:36	07/21/21 17:05	5
M2-8:2 FTS	104		25 - 150				07/18/21 18:36	07/21/21 17:05	5

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: IPW-01-20210716**

**Lab Sample ID: 320-76376-13**

**Date Collected: 07/16/21 13:10**

**Matrix: Water**

**Date Received: 07/17/21 09:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.3	2.1	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		07/18/21 18:36	07/20/21 15:02	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		07/18/21 18:36	07/20/21 15:02	1
NEtFOSA	<0.75		1.7	0.75	ng/L		07/18/21 18:36	07/20/21 15:02	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/18/21 18:36	07/20/21 15:02	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		07/18/21 18:36	07/20/21 15:02	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		07/18/21 18:36	07/20/21 15:02	1
NMeFOSE	<1.2		3.4	1.2	ng/L		07/18/21 18:36	07/20/21 15:02	1
NEtFOSE	<0.73		1.7	0.73	ng/L		07/18/21 18:36	07/20/21 15:02	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 15:02	1
6:2 FTS	<2.1		4.3	2.1	ng/L		07/18/21 18:36	07/20/21 15:02	1
8:2 FTS	<0.40		1.7	0.40	ng/L		07/18/21 18:36	07/20/21 15:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		07/18/21 18:36	07/20/21 15:02	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		07/18/21 18:36	07/20/21 15:02	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/18/21 18:36	07/20/21 15:02	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		07/18/21 18:36	07/20/21 15:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C5 PFPeA	75		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C2 PFHxA	99		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C4 PFHpA	92		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C4 PFOA	97		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C5 PFNA	88		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C2 PFDA	95		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C2 PFUnA	89		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C2 PFDoA	90		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C2 PFTeDA	81		25 - 150				07/18/21 18:36	07/20/21 15:02	1
13C3 PFBS	77		25 - 150				07/18/21 18:36	07/20/21 15:02	1
18O2 PFHxS	91		25 - 150				07/18/21 18:36	07/20/21 15:02	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: IPW-01-20210716**

**Lab Sample ID: 320-76376-13**

Date Collected: 07/16/21 13:10

Matrix: Water

Date Received: 07/17/21 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	95		25 - 150	07/18/21 18:36	07/20/21 15:02	1
13C8 FOSA	95		10 - 150	07/18/21 18:36	07/20/21 15:02	1
d3-NMeFOSAA	68		25 - 150	07/18/21 18:36	07/20/21 15:02	1
d5-NEtFOSAA	85		25 - 150	07/18/21 18:36	07/20/21 15:02	1
d-N-MeFOSA-M	77		10 - 150	07/18/21 18:36	07/20/21 15:02	1
d-N-EtFOSA-M	74		10 - 150	07/18/21 18:36	07/20/21 15:02	1
d7-N-MeFOSE-M	67		10 - 150	07/18/21 18:36	07/20/21 15:02	1
d9-N-EtFOSE-M	80		10 - 150	07/18/21 18:36	07/20/21 15:02	1
M2-4:2 FTS	73		25 - 150	07/18/21 18:36	07/20/21 15:02	1
M2-6:2 FTS	75		25 - 150	07/18/21 18:36	07/20/21 15:02	1
M2-8:2 FTS	94		25 - 150	07/18/21 18:36	07/20/21 15:02	1
13C3 HFPO-DA	93		25 - 150	07/18/21 18:36	07/20/21 15:02	1

**Client Sample ID: IPW-02-20210716**

**Lab Sample ID: 320-76376-14**

Date Collected: 07/16/21 13:05

Matrix: Water

Date Received: 07/17/21 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.6		5.4	2.6	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluoropentanoic acid (PFPeA)	<0.53		2.2	0.53	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorohexanoic acid (PFHxA)	<0.63		2.2	0.63	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluoroheptanoic acid (PFHpA)	<0.27		2.2	0.27	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorooctanoic acid (PFOA)	<0.92		2.2	0.92	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorononanoic acid (PFNA)	<0.29		2.2	0.29	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorodecanoic acid (PFDA)	<0.34		2.2	0.34	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.2	1.2	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorododecanoic acid (PFDoA)	<0.60		2.2	0.60	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.2	1.4	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorotetradecanoic acid (PFTeA)	<0.79		2.2	0.79	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.22		2.2	0.22	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.33		2.2	0.33	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.62		2.2	0.62	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.21		2.2	0.21	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.59		2.2	0.59	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorononanesulfonic acid (PFNS)	<0.40		2.2	0.40	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorodecanesulfonic acid (PFDS)	<0.35		2.2	0.35	ng/L		07/18/21 18:36	07/20/21 15:11	1
Perfluorododecanesulfonic acid (PFDoS)	<1.1		2.2	1.1	ng/L		07/18/21 18:36	07/20/21 15:11	1
<b>Perfluorooctanesulfonamide (FOSA)</b>	<b>1.2 J</b>		2.2	1.1	ng/L		07/18/21 18:36	07/20/21 15:11	1
NEtFOSA	<0.95		2.2	0.95	ng/L		07/18/21 18:36	07/20/21 15:11	1
NMeFOSA	<0.47		2.2	0.47	ng/L		07/18/21 18:36	07/20/21 15:11	1
NMeFOSAA	<1.3		5.4	1.3	ng/L		07/18/21 18:36	07/20/21 15:11	1
NEtFOSAA	<1.4		5.4	1.4	ng/L		07/18/21 18:36	07/20/21 15:11	1
NMeFOSE	<1.5		4.3	1.5	ng/L		07/18/21 18:36	07/20/21 15:11	1
NEtFOSE	<0.92		2.2	0.92	ng/L		07/18/21 18:36	07/20/21 15:11	1
4:2 FTS	<0.26		2.2	0.26	ng/L		07/18/21 18:36	07/20/21 15:11	1
6:2 FTS	<2.7		5.4	2.7	ng/L		07/18/21 18:36	07/20/21 15:11	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: IPW-02-20210716**

**Lab Sample ID: 320-76376-14**

**Date Collected: 07/16/21 13:05**

**Matrix: Water**

**Date Received: 07/17/21 09:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	<0.50		2.2	0.50	ng/L		07/18/21 18:36	07/20/21 15:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.43		2.2	0.43	ng/L		07/18/21 18:36	07/20/21 15:11	1
HFPO-DA (GenX)	<1.6		4.3	1.6	ng/L		07/18/21 18:36	07/20/21 15:11	1
9Cl-PF3ONS	<0.26		2.2	0.26	ng/L		07/18/21 18:36	07/20/21 15:11	1
11Cl-PF3OUdS	<0.35		2.2	0.35	ng/L		07/18/21 18:36	07/20/21 15:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	84		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C5 PFPeA	73		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C2 PFHxA	88		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C4 PFHpA	84		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C4 PFOA	87		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C5 PFNA	83		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C2 PFDA	93		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C2 PFUnA	90		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C2 PFDoA	90		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C2 PFTeDA	85		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C3 PFBS	77		25 - 150				07/18/21 18:36	07/20/21 15:11	1
18O2 PFHxS	84		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C4 PFOS	88		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C8 FOSA	89		10 - 150				07/18/21 18:36	07/20/21 15:11	1
d3-NMeFOSAA	77		25 - 150				07/18/21 18:36	07/20/21 15:11	1
d5-NEtFOSAA	86		25 - 150				07/18/21 18:36	07/20/21 15:11	1
d-N-MeFOSA-M	65		10 - 150				07/18/21 18:36	07/20/21 15:11	1
d-N-EtFOSA-M	66		10 - 150				07/18/21 18:36	07/20/21 15:11	1
d7-N-MeFOSE-M	75		10 - 150				07/18/21 18:36	07/20/21 15:11	1
d9-N-EtFOSE-M	71		10 - 150				07/18/21 18:36	07/20/21 15:11	1
M2-4:2 FTS	64		25 - 150				07/18/21 18:36	07/20/21 15:11	1
M2-6:2 FTS	73		25 - 150				07/18/21 18:36	07/20/21 15:11	1
M2-8:2 FTS	116		25 - 150				07/18/21 18:36	07/20/21 15:11	1
13C3 HFPO-DA	91		25 - 150				07/18/21 18:36	07/20/21 15:11	1

# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

## 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)
320-76376-1	MW-01-20210716	90			86	88	85	98	90
320-76376-1 - DL	MW-01-20210716		73	88					
320-76376-2	MW-02-20210716	87			82	91	86	102	95
320-76376-2 - DL	MW-02-20210716		78	91					
320-76376-3	MW-03-20210715	84	69	90	79	86	77	92	86
320-76376-4	MW-04-20210716	108					98	103	115
320-76376-4 - DL	MW-04-20210716		82	91	79	70			
320-76376-5	MW-05-20210715	84	62	91	84	92	84	104	98
320-76376-6	MW-06-20210715	87	66	101	87	93	90	98	99
320-76376-7	MW-07-20210714	94	70	107	88	97	91	98	93
320-76376-8	PZ-01-20210715	94	78	99	89	93	86	100	98
320-76376-9	DUP-01-20210715	87	65	91	83	92	83	97	96
320-76376-10	EB-01-20210716	88	78	91	88	97	87	101	98
320-76376-11	FB-01-20210716	87	78	93	93	94	87	97	98
320-76376-12	PW-01-20210716	90		100	96	85	88	102	105
320-76376-12 - DL	PW-01-20210716		74						
320-76376-13	IPW-01-20210716	97	75	99	92	97	88	95	89
320-76376-14	IPW-02-20210716	84	73	88	84	87	83	93	90
LCS 320-507884/2-A	Lab Control Sample	87	76	96	88	90	88	97	94
LCSD 320-507884/3-A	Lab Control Sample Dup	89	81	93	90	88	88	94	98
MB 320-507884/1-A	Method Blank	92	86	97	89	91	85	100	103

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOs (25-150)	d5NEFOs (25-150)
320-76376-1	MW-01-20210716	91	79	86	93	99	98	77	89
320-76376-1 - DL	MW-01-20210716								
320-76376-2	MW-02-20210716	90	85	82	90	103	93	80	82
320-76376-2 - DL	MW-02-20210716								
320-76376-3	MW-03-20210715	91	82	82	81	97	88	72	88
320-76376-4	MW-04-20210716	119	114	111	113	120	111	101	111
320-76376-4 - DL	MW-04-20210716								
320-76376-5	MW-05-20210715	100	92	81	92	99	99	78	89
320-76376-6	MW-06-20210715	93	87	77	89	97	88	72	89
320-76376-7	MW-07-20210714	112	99	80	98	101	100	75	94
320-76376-8	PZ-01-20210715	98	93	87	92	104	99	82	94
320-76376-9	DUP-01-20210715	94	91	86	88	94	92	81	87
320-76376-10	EB-01-20210716	94	88	83	94	97	90	76	90
320-76376-11	FB-01-20210716	98	90	82	91	91	93	80	88
320-76376-12	PW-01-20210716	99	96	86	95	97	101	81	98
320-76376-12 - DL	PW-01-20210716								
320-76376-13	IPW-01-20210716	90	81	77	91	95	95	68	85
320-76376-14	IPW-02-20210716	90	85	77	84	88	89	77	86
LCS 320-507884/2-A	Lab Control Sample	94	83	84	92	96	85	74	81
LCSD 320-507884/3-A	Lab Control Sample Dup	100	93	85	94	105	89	80	89
MB 320-507884/1-A	Method Blank	98	82	79	90	100	88	77	91

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)
320-76376-1	MW-01-20210716	74	78	66	73	81		101	92

Eurofins TestAmerica, Sacramento

# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

## 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)
320-76376-1 - DL	MW-01-20210716						73		
320-76376-2	MW-02-20210716	79	76	62	67	99		136	88
320-76376-2 - DL	MW-02-20210716						92		
320-76376-3	MW-03-20210715	65	70	63	66	70	77	118	83
320-76376-4	MW-04-20210716	94	99	87	98	88			106
320-76376-4 - DL	MW-04-20210716						139	108	
320-76376-5	MW-05-20210715	78	79	66	75	74	76	110	84
320-76376-6	MW-06-20210715	73	70	65	71	82	86	110	84
320-76376-7	MW-07-20210714	80	84	74	84	74	82	108	83
320-76376-8	PZ-01-20210715	82	81	72	77	73	79	109	85
320-76376-9	DUP-01-20210715	71	70	67	72	76	73	125	88
320-76376-10	EB-01-20210716	78	77	75	78	65	78	143	84
320-76376-11	FB-01-20210716	74	76	71	78	66	75	127	90
320-76376-12	PW-01-20210716	78	72	78	77	72			99
320-76376-12 - DL	PW-01-20210716						102	104	
320-76376-13	IPW-01-20210716	77	74	67	80	73	75	94	93
320-76376-14	IPW-02-20210716	65	66	75	71	64	73	116	91
LCS 320-507884/2-A	Lab Control Sample	70	73	68	72	60	80	106	85
LCSD 320-507884/3-A	Lab Control Sample Dup	75	75	71	84	71	79	107	83
MB 320-507884/1-A	Method Blank	70	75	73	79	66	91	107	95

### Surrogate Legend

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

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

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

**Lab Sample ID: MB 320-507884/1-A**  
**Matrix: Water**  
**Analysis Batch: 508204**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 507884**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		07/18/21 18:36	07/20/21 12:13	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		07/18/21 18:36	07/20/21 12:13	1
NEtFOSA	<0.87		2.0	0.87	ng/L		07/18/21 18:36	07/20/21 12:13	1
NMeFOSA	<0.43		2.0	0.43	ng/L		07/18/21 18:36	07/20/21 12:13	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		07/18/21 18:36	07/20/21 12:13	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		07/18/21 18:36	07/20/21 12:13	1
NMeFOSE	<1.4		4.0	1.4	ng/L		07/18/21 18:36	07/20/21 12:13	1
NEtFOSE	<0.85		2.0	0.85	ng/L		07/18/21 18:36	07/20/21 12:13	1
4:2 FTS	<0.24		2.0	0.24	ng/L		07/18/21 18:36	07/20/21 12:13	1
6:2 FTS	<2.5		5.0	2.5	ng/L		07/18/21 18:36	07/20/21 12:13	1
8:2 FTS	<0.46		2.0	0.46	ng/L		07/18/21 18:36	07/20/21 12:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		07/18/21 18:36	07/20/21 12:13	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		07/18/21 18:36	07/20/21 12:13	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		07/18/21 18:36	07/20/21 12:13	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		07/18/21 18:36	07/20/21 12:13	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	92		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C5 PFPeA	86		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C2 PFHxA	97		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C4 PFHpA	89		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C4 PFOA	91		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C5 PFNA	85		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C2 PFDA	100		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C2 PFUnA	103		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C2 PFDoA	98		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C2 PFTeDA	82		25 - 150	07/18/21 18:36	07/20/21 12:13	1

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

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

**Lab Sample ID: MB 320-507884/1-A**  
**Matrix: Water**  
**Analysis Batch: 508204**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 507884**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	79		25 - 150	07/18/21 18:36	07/20/21 12:13	1
18O2 PFHxS	90		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C4 PFOS	100		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C8 FOSA	88		10 - 150	07/18/21 18:36	07/20/21 12:13	1
d3-NMeFOSAA	77		25 - 150	07/18/21 18:36	07/20/21 12:13	1
d5-NEtFOSAA	91		25 - 150	07/18/21 18:36	07/20/21 12:13	1
d-N-MeFOSA-M	70		10 - 150	07/18/21 18:36	07/20/21 12:13	1
d-N-EtFOSA-M	75		10 - 150	07/18/21 18:36	07/20/21 12:13	1
d7-N-MeFOSE-M	73		10 - 150	07/18/21 18:36	07/20/21 12:13	1
d9-N-EtFOSE-M	79		10 - 150	07/18/21 18:36	07/20/21 12:13	1
M2-4:2 FTS	66		25 - 150	07/18/21 18:36	07/20/21 12:13	1
M2-6:2 FTS	91		25 - 150	07/18/21 18:36	07/20/21 12:13	1
M2-8:2 FTS	107		25 - 150	07/18/21 18:36	07/20/21 12:13	1
13C3 HFPO-DA	95		25 - 150	07/18/21 18:36	07/20/21 12:13	1

**Lab Sample ID: LCS 320-507884/2-A**  
**Matrix: Water**  
**Analysis Batch: 508204**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 507884**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoropentanoic acid (PFPeA)	40.0	44.2		ng/L		110	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	39.8		ng/L		100	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	38.9		ng/L		97	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	42.4		ng/L		106	60 - 135
Perfluorononanoic acid (PFNA)	40.0	43.1		ng/L		108	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	37.2		ng/L		93	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	45.9		ng/L		115	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	38.6		ng/L		96	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	40.4		ng/L		101	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.3		ng/L		101	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	39.0		ng/L		110	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	39.7		ng/L		106	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.2		ng/L		97	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.4		ng/L		98	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	39.2		ng/L		106	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	40.1		ng/L		104	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	37.3		ng/L		97	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	38.8		ng/L		100	60 - 135

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

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

**Lab Sample ID: LCS 320-507884/2-A**  
**Matrix: Water**  
**Analysis Batch: 508204**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 507884**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonamide (FOSA)	40.0	42.1		ng/L		105	60 - 135
NEtFOSA	40.0	42.6		ng/L		107	60 - 135
NMeFOSA	40.0	44.4		ng/L		111	60 - 135
NMeFOSAA	40.0	52.3		ng/L		131	60 - 135
NEtFOSAA	40.0	43.5		ng/L		109	60 - 135
NMeFOSE	40.0	44.0		ng/L		110	60 - 135
NEtFOSE	40.0	43.4		ng/L		108	60 - 135
4:2 FTS	37.4	46.0		ng/L		123	60 - 135
6:2 FTS	37.9	37.8		ng/L		100	60 - 135
8:2 FTS	38.3	34.8		ng/L		91	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	36.1		ng/L		96	60 - 135
HFPO-DA (GenX)	40.0	39.8		ng/L		99	60 - 135
9Cl-PF3ONS	37.3	39.3		ng/L		105	60 - 135
11Cl-PF3OUdS	37.7	39.6		ng/L		105	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	87		25 - 150
13C5 PFPeA	76		25 - 150
13C2 PFHxA	96		25 - 150
13C4 PFHpA	88		25 - 150
13C4 PFOA	90		25 - 150
13C5 PFNA	88		25 - 150
13C2 PFDA	97		25 - 150
13C2 PFUnA	94		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	83		25 - 150
13C3 PFBS	84		25 - 150
18O2 PFHxS	92		25 - 150
13C4 PFOS	96		25 - 150
13C8 FOSA	85		10 - 150
d3-NMeFOSAA	74		25 - 150
d5-NEtFOSAA	81		25 - 150
d-N-MeFOSA-M	70		10 - 150
d-N-EtFOSA-M	73		10 - 150
d7-N-MeFOSE-M	68		10 - 150
d9-N-EtFOSE-M	72		10 - 150
M2-4:2 FTS	60		25 - 150
M2-6:2 FTS	80		25 - 150
M2-8:2 FTS	106		25 - 150
13C3 HFPO-DA	85		25 - 150

**Lab Sample ID: LCSD 320-507884/3-A**  
**Matrix: Water**  
**Analysis Batch: 508204**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 507884**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	40.1		ng/L		100	60 - 135	2	30

Eurofins TestAmerica, Sacramento



# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

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

**Lab Sample ID: LCSD 320-507884/3-A**  
**Matrix: Water**  
**Analysis Batch: 508204**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 507884**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	40.0	43.0		ng/L		107	60 - 135	3	30
Perfluorohexanoic acid (PFHxA)	40.0	39.9		ng/L		100	60 - 135	0	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.9		ng/L		102	60 - 135	5	30
Perfluorooctanoic acid (PFOA)	40.0	41.7		ng/L		104	60 - 135	2	30
Perfluorononanoic acid (PFNA)	40.0	44.3		ng/L		111	60 - 135	3	30
Perfluorodecanoic acid (PFDA)	40.0	40.6		ng/L		101	60 - 135	9	30
Perfluoroundecanoic acid (PFUnA)	40.0	44.4		ng/L		111	60 - 135	3	30
Perfluorododecanoic acid (PFDoA)	40.0	41.2		ng/L		103	60 - 135	6	30
Perfluorotridecanoic acid (PFTrDA)	40.0	40.2		ng/L		101	60 - 135	0	30
Perfluorotetradecanoic acid (PFTeA)	40.0	39.0		ng/L		97	60 - 135	3	30
Perfluorobutanesulfonic acid (PFBS)	35.4	39.4		ng/L		111	60 - 135	1	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	38.6		ng/L		103	60 - 135	3	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.2		ng/L		100	60 - 135	3	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.6		ng/L		101	60 - 135	3	30
Perfluorooctanesulfonic acid (PFOS)	37.1	36.8		ng/L		99	60 - 135	6	30
Perfluorononanesulfonic acid (PFNS)	38.4	39.3		ng/L		102	60 - 135	2	30
Perfluorodecanesulfonic acid (PFDS)	38.6	37.9		ng/L		98	60 - 135	1	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	39.6		ng/L		102	60 - 135	2	30
Perfluorooctanesulfonamide (FOSA)	40.0	39.4		ng/L		99	60 - 135	7	30
NEtFOSA	40.0	43.8		ng/L		109	60 - 135	3	30
NMeFOSA	40.0	42.8		ng/L		107	60 - 135	4	30
NMeFOSAA	40.0	48.5		ng/L		121	60 - 135	8	30
NEtFOSAA	40.0	41.0		ng/L		102	60 - 135	6	30
NMeFOSE	40.0	43.5		ng/L		109	60 - 135	1	30
NEtFOSE	40.0	40.3		ng/L		101	60 - 135	7	30
4:2 FTS	37.4	41.7		ng/L		112	60 - 135	10	30
6:2 FTS	37.9	37.2		ng/L		98	60 - 135	2	30
8:2 FTS	38.3	40.7		ng/L		106	60 - 135	15	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	36.6		ng/L		97	60 - 135	1	30
HFPO-DA (GenX)	40.0	43.7		ng/L		109	60 - 135	9	30
9Cl-PF3ONS	37.3	35.8		ng/L		96	60 - 135	9	30
11Cl-PF3OUdS	37.7	40.8		ng/L		108	60 - 135	3	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	89		25 - 150
13C5 PFPeA	81		25 - 150
13C2 PFHxA	93		25 - 150
13C4 PFHpA	90		25 - 150

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

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

Lab Sample ID: LCSD 320-507884/3-A  
 Matrix: Water  
 Analysis Batch: 508204

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 507884

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	88		25 - 150
13C5 PFNA	88		25 - 150
13C2 PFDA	94		25 - 150
13C2 PFUnA	98		25 - 150
13C2 PFDoA	100		25 - 150
13C2 PFTeDA	93		25 - 150
13C3 PFBS	85		25 - 150
18O2 PFHxS	94		25 - 150
13C4 PFOS	105		25 - 150
13C8 FOSA	89		10 - 150
d3-NMeFOSAA	80		25 - 150
d5-NEtFOSAA	89		25 - 150
d-N-MeFOSA-M	75		10 - 150
d-N-EtFOSA-M	75		10 - 150
d7-N-MeFOSE-M	71		10 - 150
d9-N-EtFOSE-M	84		10 - 150
M2-4:2 FTS	71		25 - 150
M2-6:2 FTS	79		25 - 150
M2-8:2 FTS	107		25 - 150
13C3 HFPO-DA	83		25 - 150

# QC Association Summary

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

## LCMS

### Prep Batch: 507884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76376-1	MW-01-20210716	Total/NA	Water	3535	
320-76376-1 - DL	MW-01-20210716	Total/NA	Water	3535	
320-76376-2 - DL	MW-02-20210716	Total/NA	Water	3535	
320-76376-2	MW-02-20210716	Total/NA	Water	3535	
320-76376-3	MW-03-20210715	Total/NA	Water	3535	
320-76376-4	MW-04-20210716	Total/NA	Water	3535	
320-76376-4 - DL	MW-04-20210716	Total/NA	Water	3535	
320-76376-5	MW-05-20210715	Total/NA	Water	3535	
320-76376-6	MW-06-20210715	Total/NA	Water	3535	
320-76376-7	MW-07-20210714	Total/NA	Water	3535	
320-76376-8	PZ-01-20210715	Total/NA	Water	3535	
320-76376-9	DUP-01-20210715	Total/NA	Water	3535	
320-76376-10	EB-01-20210716	Total/NA	Water	3535	
320-76376-11	FB-01-20210716	Total/NA	Water	3535	
320-76376-12	PW-01-20210716	Total/NA	Water	3535	
320-76376-12 - DL	PW-01-20210716	Total/NA	Water	3535	
320-76376-13	IPW-01-20210716	Total/NA	Water	3535	
320-76376-14	IPW-02-20210716	Total/NA	Water	3535	
MB 320-507884/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-507884/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-507884/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 508204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76376-1	MW-01-20210716	Total/NA	Water	537 (modified)	507884
320-76376-2	MW-02-20210716	Total/NA	Water	537 (modified)	507884
320-76376-3	MW-03-20210715	Total/NA	Water	537 (modified)	507884
320-76376-4	MW-04-20210716	Total/NA	Water	537 (modified)	507884
320-76376-5	MW-05-20210715	Total/NA	Water	537 (modified)	507884
320-76376-6	MW-06-20210715	Total/NA	Water	537 (modified)	507884
320-76376-7	MW-07-20210714	Total/NA	Water	537 (modified)	507884
320-76376-8	PZ-01-20210715	Total/NA	Water	537 (modified)	507884
320-76376-9	DUP-01-20210715	Total/NA	Water	537 (modified)	507884
320-76376-10	EB-01-20210716	Total/NA	Water	537 (modified)	507884
320-76376-11	FB-01-20210716	Total/NA	Water	537 (modified)	507884
320-76376-12	PW-01-20210716	Total/NA	Water	537 (modified)	507884
320-76376-13	IPW-01-20210716	Total/NA	Water	537 (modified)	507884
320-76376-14	IPW-02-20210716	Total/NA	Water	537 (modified)	507884
MB 320-507884/1-A	Method Blank	Total/NA	Water	537 (modified)	507884
LCS 320-507884/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	507884
LCSD 320-507884/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	507884

### Analysis Batch: 509000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76376-1 - DL	MW-01-20210716	Total/NA	Water	537 (modified)	507884
320-76376-2 - DL	MW-02-20210716	Total/NA	Water	537 (modified)	507884
320-76376-4 - DL	MW-04-20210716	Total/NA	Water	537 (modified)	507884
320-76376-12 - DL	PW-01-20210716	Total/NA	Water	537 (modified)	507884

# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-01-20210716**

**Lab Sample ID: 320-76376-1**

Date Collected: 07/16/21 09:23

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.8 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 12:41	K1S	TAL SAC
Total/NA	Prep	3535	DL		271.8 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5			509000	07/21/21 16:37	S1M	TAL SAC

**Client Sample ID: MW-02-20210716**

**Lab Sample ID: 320-76376-2**

Date Collected: 07/16/21 10:51

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			285.7 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 12:50	K1S	TAL SAC
Total/NA	Prep	3535	DL		285.7 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5			509000	07/21/21 16:46	S1M	TAL SAC

**Client Sample ID: MW-03-20210715**

**Lab Sample ID: 320-76376-3**

Date Collected: 07/15/21 11:52

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			285.2 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 13:00	K1S	TAL SAC

**Client Sample ID: MW-04-20210716**

**Lab Sample ID: 320-76376-4**

Date Collected: 07/16/21 12:14

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			290 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 13:09	K1S	TAL SAC
Total/NA	Prep	3535	DL		290 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)	DL	20			509000	07/21/21 16:56	S1M	TAL SAC

**Client Sample ID: MW-05-20210715**

**Lab Sample ID: 320-76376-5**

Date Collected: 07/15/21 14:56

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			272.4 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 13:18	K1S	TAL SAC

# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: MW-06-20210715**

**Lab Sample ID: 320-76376-6**

Date Collected: 07/15/21 09:29

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.6 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 13:28	K1S	TAL SAC

**Client Sample ID: MW-07-20210714**

**Lab Sample ID: 320-76376-7**

Date Collected: 07/14/21 13:18

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			286.6 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 13:37	K1S	TAL SAC

**Client Sample ID: PZ-01-20210715**

**Lab Sample ID: 320-76376-8**

Date Collected: 07/15/21 12:53

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			287 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 14:15	K1S	TAL SAC

**Client Sample ID: DUP-01-20210715**

**Lab Sample ID: 320-76376-9**

Date Collected: 07/15/21 00:00

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			260.3 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 14:24	K1S	TAL SAC

**Client Sample ID: EB-01-20210716**

**Lab Sample ID: 320-76376-10**

Date Collected: 07/16/21 11:50

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			291.1 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 14:33	K1S	TAL SAC

**Client Sample ID: FB-01-20210716**

**Lab Sample ID: 320-76376-11**

Date Collected: 07/16/21 11:45

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			244.5 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 14:43	K1S	TAL SAC

# Lab Chronicle

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

**Client Sample ID: PW-01-20210716**

**Lab Sample ID: 320-76376-12**

Date Collected: 07/16/21 12:58

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 14:52	K1S	TAL SAC
Total/NA	Prep	3535	DL		283 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5			509000	07/21/21 17:05	S1M	TAL SAC

**Client Sample ID: IPW-01-20210716**

**Lab Sample ID: 320-76376-13**

Date Collected: 07/16/21 13:10

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			291 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 15:02	K1S	TAL SAC

**Client Sample ID: IPW-02-20210716**

**Lab Sample ID: 320-76376-14**

Date Collected: 07/16/21 13:05

Matrix: Water

Date Received: 07/17/21 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			230 mL	10.0 mL	507884	07/18/21 18:36	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			508204	07/20/21 15:11	K1S	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-76376-1

## Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-18-22
Kansas	NELAP	E-10375	10-31-21
Louisiana	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-22
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-30-23
Texas	NELAP	T104704399-19-13	05-31-22
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442021-12	03-01-22
Virginia	NELAP	460278	03-14-22
Washington	State	C581	05-05-22
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

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

# Method Summary

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

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

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

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





# Sample Summary

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-76376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-76376-1	MW-01-20210716	Water	07/16/21 09:23	07/17/21 09:05
320-76376-2	MW-02-20210716	Water	07/16/21 10:51	07/17/21 09:05
320-76376-3	MW-03-20210715	Water	07/15/21 11:52	07/17/21 09:05
320-76376-4	MW-04-20210716	Water	07/16/21 12:14	07/17/21 09:05
320-76376-5	MW-05-20210715	Water	07/15/21 14:56	07/17/21 09:05
320-76376-6	MW-06-20210715	Water	07/15/21 09:29	07/17/21 09:05
320-76376-7	MW-07-20210714	Water	07/14/21 13:18	07/17/21 09:05
320-76376-8	PZ-01-20210715	Water	07/15/21 12:53	07/17/21 09:05
320-76376-9	DUP-01-20210715	Water	07/15/21 00:00	07/17/21 09:05
320-76376-10	EB-01-20210716	Water	07/16/21 11:50	07/17/21 09:05
320-76376-11	FB-01-20210716	Water	07/16/21 11:45	07/17/21 09:05
320-76376-12	PW-01-20210716	Water	07/16/21 12:58	07/17/21 09:05
320-76376-13	IPW-01-20210716	Water	07/16/21 13:10	07/17/21 09:05
320-76376-14	IPW-02-20210716	Water	07/16/21 13:05	07/17/21 09:05

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TAL-8210

Address:

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact  
 Company Name: TRC Env.  
 Address: 706 Heartland Tr. Ste 3000  
 City/State/Zip: Madison, WI 53717  
 Phone: 608-234-7374  
 Fax:  
 Project Name: Rockys  
 Site: Cahoon's Lake, WI Plant  
 PO #

Project Manager: Jeff Ramey  
 Tell/Email: jramey@trc.com  
 Analysis Turnaround Time: 5 Day  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below

Site Contact: Jeff Ramey  
 Lab Contact: David Hatcher  
 Date: 5/16/21  
 Carrier: FedEx  
 COC No: 1 of 2 COCs

Sampler:  
 For Lab Use Only:  
 Walk-in Client:  
 Lab Sampling:  
 Job / SDG No.:

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-01-20210716	7/16/21	923	G	GW	2	N	X	
MW-02-20210716	7/16/21	1051	G	GW	2	N	X	
MW-03-20210715	7/15/21	1152	G	GW	2	N	X	
MW-04-20210716	7/16/21	1214	G	GW	2	N	X	
MW-05-20210715	7/15/21	1456	G	GW	2	N	X	
MW-06-20210715	7/15/21	929	G	GW	2	N	X	
MW-07-20210714	7/14/21	1318	G	GW	2	N	X	
<del>PZ-01-20210715</del>	7/15/21	1253	G	GW	2	N	X	
DUP-01-20210715	7/15/21	-	G	GW	2	N	X	
FB-01-20210716	7/16/21	1150	G	GW	2	N	X	
FB-01-20210716	7/16/21	1145	G	GW	2	N	X	
PW-01-20210716	7/16/21	1258	G	GW	2	N	X	



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

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

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Custody Seal No.: 1478342/1478343  
 Cooler Temp. (°C): Obs'd: 1.9  
 Corr'd: 1.9  
 Therm ID No.: W2

Relinquished by: *Wm John*  
 Date/Time: 7/16/21 1800  
 Company: TRC

Relinquished by: *Greg*  
 Date/Time: 7/16/21 1800  
 Company: Evox

Relinquished by: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_

Office 14K 50712M  
 D fmc 11SD 50712M

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# Chain of Custody Record

414733



Environment Testing  
TestAmerica

TAL-8210

Address:

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact  
Company Name: TRC Env., 708 Heartland Tr., Ste 300, Madison, WI 53717  
Phone: 608-234-7374  
Site: Cambridge, WI Plant  
PO #

Project Manager: Jeff Rainey  
Tel/Email: J.Rainey@trccompanies.com  
Analysis Turnaround Time:  2 weeks  1 week  2 days  1 day  
 CALENDAR DAYS  WORKING DAYS  
TAT if different from Below

Site Contact: Jeff Rainey  
Lab Contact: David Althuck  
Date: 5/16/21  
Carrier: FedEx  
COC No: 1 of 7 COCs

Sampler: [Blank]  
For Lab Use Only:  
Walk-in Client:  
Lab Sampling:  
Job / SDG No.:

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:
IPW-01-20210716	7/16/21	1310	GA	GW	2	N	N	X
IPW-02-20210716	7/16/21	1315	GA	GW	2	N	N	X

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH; 6= Other  
Possible Hazard Identification: [Blank]  
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: [Blank]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Custody Seal No.: 147832-11478373  
Cooler Temp. (°C): Obs'd: 19  
Corrd: 19  
Term ID No: 19

Received by: [Signature] Date/Time: 7/16/21 1800  
Company: TRC

Received by: [Signature] Date/Time: 7/17/21 905  
Company: [Blank]

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



# Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-76376-1

**Login Number: 76376**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator: Oropeza, Salvador**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1478342/1478343
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	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	