

## ANALYTICAL REPORT

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Tel: (916)373-5600

Laboratory Job ID: 320-73544-1  
Client Project/Site: 437865 RockGen

**For:**

TRC Environmental Corporation  
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Attn: Jeff Ramey



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*Authorized for release by:  
5/17/2021 12:20:55 PM*

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Detection Summary . . . . .	4
Client Sample Results . . . . .	7
Isotope Dilution Summary . . . . .	27
QC Sample Results . . . . .	31
QC Association Summary . . . . .	42
Lab Chronicle . . . . .	44
Certification Summary . . . . .	48
Method Summary . . . . .	49
Sample Summary . . . . .	50
Chain of Custody . . . . .	51
Receipt Checklists . . . . .	53

# Definitions/Glossary

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

## Client Sample ID: SB-17 (0-1.5)

## Lab Sample ID: 320-73544-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.34		0.24	0.033	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.63		0.24	0.092	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.36		0.24	0.050	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.59		0.24	0.035	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.2		0.24	0.10	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.83		0.24	0.043	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.051	J	0.24	0.026	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	0.69	J	2.4	0.30	ug/Kg	1	✳	537 (modified)	Total/NA

## Client Sample ID: SB-18 (0-1)

## Lab Sample ID: 320-73544-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.38		0.23	0.032	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.83		0.23	0.089	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.51		0.23	0.048	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.93		0.23	0.033	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.8		0.23	0.099	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.1		0.23	0.041	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.58		0.23	0.025	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.15	J	0.23	0.041	ug/Kg	1	✳	537 (modified)	Total/NA
6:2 FTS	0.17	J	2.3	0.17	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	7.1		2.3	0.29	ug/Kg	1	✳	537 (modified)	Total/NA

## Client Sample ID: SB-19 (0-1.75)

## Lab Sample ID: 320-73544-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.20	J	0.21	0.030	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.23		0.21	0.082	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.19	J	0.21	0.045	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.24		0.21	0.031	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.36		0.21	0.092	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.19	J	0.21	0.038	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.039	J	0.21	0.024	ug/Kg	1	✳	537 (modified)	Total/NA

## Client Sample ID: SB-20 (0-2)

## Lab Sample ID: 320-73544-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.16	J	0.23	0.032	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.066	J	0.23	0.048	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.075	J	0.23	0.033	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.11	J	0.23	0.099	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.072	J	0.23	0.041	ug/Kg	1	✳	537 (modified)	Total/NA

## Client Sample ID: SB-21 (0-0.9)

## Lab Sample ID: 320-73544-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.15	J	0.24	0.034	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.17	J	0.24	0.094	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.17	J	0.24	0.051	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.20	J	0.24	0.035	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.30		0.24	0.10	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.15	J	0.24	0.044	ug/Kg	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: 320-73544-1

## Client Sample ID: SB-22 (0-2)

## Lab Sample ID: 320-73544-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.21		0.20	0.029	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.24		0.20	0.079	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.19	J	0.20	0.043	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.27		0.20	0.030	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.40		0.20	0.088	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.33		0.20	0.037	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.043	J	0.20	0.022	ug/Kg	1	✳	537 (modified)	Total/NA

## Client Sample ID: SB-23 (0-2)

## Lab Sample ID: 320-73544-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.82		0.24	0.034	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.6		0.24	0.094	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.68		0.24	0.051	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3		0.24	0.035	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.4		0.24	0.11	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.89		0.24	0.044	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.44		0.24	0.027	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.18	J	0.24	0.044	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.11	J	0.24	0.082	ug/Kg	1	✳	537 (modified)	Total/NA
6:2 FTS	1.5	J	2.4	0.18	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	14		2.4	0.31	ug/Kg	1	✳	537 (modified)	Total/NA

## Client Sample ID: SB-24 (0-2)

## Lab Sample ID: 320-73544-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.6		0.24	0.034	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		0.24	0.092	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1		0.24	0.050	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.2		0.24	0.035	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.3		0.24	0.10	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.86		0.24	0.043	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.14	J	0.24	0.026	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.059	J	0.24	0.043	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	2.0	J	2.4	0.30	ug/Kg	1	✳	537 (modified)	Total/NA

## Client Sample ID: SB-25 (0-2)

## Lab Sample ID: 320-73544-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.5		0.22	0.030	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.7		0.22	0.083	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.0		0.22	0.045	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3		0.22	0.031	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.6		0.22	0.093	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.8		0.22	0.039	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.30		0.22	0.024	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.12	J	0.22	0.039	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.25	J	0.54	0.22	ug/Kg	1	✳	537 (modified)	Total/NA
6:2 FTS	0.28	J	2.2	0.16	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	4.4		2.2	0.27	ug/Kg	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: 320-73544-1

## Client Sample ID: SB-26 (0-2)

## Lab Sample ID: 320-73544-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.1		0.25	0.035	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.5		0.25	0.095	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.80		0.25	0.052	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		0.25	0.036	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.7		0.25	0.11	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.0		0.25	0.045	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.2		0.25	0.027	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.64		0.25	0.045	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.17	J	0.25	0.083	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.48	J I	0.62	0.25	ug/Kg	1	✳	537 (modified)	Total/NA
6:2 FTS	1.4	J	2.5	0.19	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	22		2.5	0.31	ug/Kg	1	✳	537 (modified)	Total/NA

## Client Sample ID: SS-04

## Lab Sample ID: 320-73544-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.5		0.27	0.037	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.7		0.27	0.10	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.3		0.27	0.056	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.4		0.27	0.039	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.8		0.27	0.11	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.6		0.27	0.048	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.1		0.27	0.029	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.7		0.27	0.048	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.87		0.27	0.090	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTTrDA)	0.19	J	0.27	0.068	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.15	J	0.27	0.072	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.42	J I	0.67	0.27	ug/Kg	1	✳	537 (modified)	Total/NA
6:2 FTS	0.38	J	2.7	0.20	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	5.3		2.7	0.33	ug/Kg	1	✳	537 (modified)	Total/NA

## Client Sample ID: EB-06-202105

## Lab Sample ID: 320-73544-15

No Detections.

## Client Sample ID: EB-07-202105

## Lab Sample ID: 320-73544-16

No Detections.

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: 320-73544-1

**Client Sample ID: SB-17 (0-1.5)**

**Lab Sample ID: 320-73544-1**

Date Collected: 05/10/21 13:40

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.34		0.24	0.033	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluoropentanoic acid (PFPeA)	0.63		0.24	0.092	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorohexanoic acid (PFHxA)	0.36		0.24	0.050	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluoroheptanoic acid (PFHpA)	0.59		0.24	0.035	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorooctanoic acid (PFOA)	1.2		0.24	0.10	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorononanoic acid (PFNA)	0.83		0.24	0.043	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorodecanoic acid (PFDA)	0.051	J	0.24	0.026	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluoroundecanoic acid (PFUnA)	ND		0.24	0.043	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorododecanoic acid (PFDoA)	ND		0.24	0.080	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.24	0.061	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.24	0.064	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.030	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.24	0.024	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.24	0.037	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.24	0.042	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.60	0.24	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorononanesulfonic acid (PFNS)	ND		0.24	0.024	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.047	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.24	0.072	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
Perfluorooctanesulfonamide (FOSA)	ND		0.24	0.098	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
NMeFOSA	ND		0.24	0.049	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
NEtFOSA	ND		0.24	0.029	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
NMeFOSAA	ND		2.4	0.47	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
NEtFOSAA	ND		2.4	0.44	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
NMeFOSE	ND		0.24	0.085	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
NEtFOSE	ND		0.24	0.043	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
4:2 FTS	ND		2.4	0.44	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
6:2 FTS	ND		2.4	0.18	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
8:2 FTS	0.69	J	2.4	0.30	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
HFPO-DA (GenX)	ND		0.30	0.13	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
9Cl-PF3ONS	ND		0.24	0.032	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
11Cl-PF3OUdS	ND		0.24	0.026	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.24	0.021	ug/Kg	✱	05/13/21 11:42	05/14/21 17:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	69		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C5 PFPeA	75		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C2 PFHxA	75		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C4 PFHpA	84		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C4 PFOA	80		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C5 PFNA	76		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C2 PFDA	85		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C2 PFUnA	77		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C2 PFDoA	72		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C2 PFTeDA	74		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C3 PFBS	55		25 - 150	05/13/21 11:42	05/14/21 17:48	1
18O2 PFHxS	58		25 - 150	05/13/21 11:42	05/14/21 17:48	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-17 (0-1.5)**

**Lab Sample ID: 320-73544-1**

Date Collected: 05/10/21 13:40

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 83.7

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	50		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C8 FOSA	61		10 - 150	05/13/21 11:42	05/14/21 17:48	1
M2-4:2 FTS	74		25 - 150	05/13/21 11:42	05/14/21 17:48	1
M2-6:2 FTS	92		25 - 150	05/13/21 11:42	05/14/21 17:48	1
M2-8:2 FTS	77		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C2 10:2 FTS	56		25 - 150	05/13/21 11:42	05/14/21 17:48	1
13C3 HFPO-DA	72		25 - 150	05/13/21 11:42	05/14/21 17:48	1
d3-NMeFOSAA	49		25 - 150	05/13/21 11:42	05/14/21 17:48	1
d5-NEtFOSAA	55		25 - 150	05/13/21 11:42	05/14/21 17:48	1
d-N-MeFOSA-M	50		10 - 150	05/13/21 11:42	05/14/21 17:48	1
d-N-EtFOSA-M	51		10 - 150	05/13/21 11:42	05/14/21 17:48	1
d7-N-MeFOSE-M	75		10 - 150	05/13/21 11:42	05/14/21 17:48	1
d9-N-EtFOSE-M	70		10 - 150	05/13/21 11:42	05/14/21 17:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.3		0.1	0.1	%			05/13/21 14:39	1
Percent Solids	83.7		0.1	0.1	%			05/13/21 14:39	1

**Client Sample ID: SB-18 (0-1)**

**Lab Sample ID: 320-73544-2**

Date Collected: 05/10/21 14:35

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.38		0.23	0.032	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluoropentanoic acid (PFPeA)	0.83		0.23	0.089	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorohexanoic acid (PFHxA)	0.51		0.23	0.048	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluoroheptanoic acid (PFHpA)	0.93		0.23	0.033	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorooctanoic acid (PFOA)	2.8		0.23	0.099	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorononanoic acid (PFNA)	4.1		0.23	0.041	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorodecanoic acid (PFDA)	0.58		0.23	0.025	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluoroundecanoic acid (PFUnA)	0.15 J		0.23	0.041	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorododecanoic acid (PFDoA)	ND		0.23	0.077	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.23	0.059	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.062	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.029	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.23	0.023	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.23	0.036	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.23	0.040	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.57	0.23	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorononanesulfonic acid (PFNS)	ND		0.23	0.023	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.045	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.23	0.069	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
Perfluorooctanesulfonamide (FOSA)	ND		0.23	0.094	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
NMeFOSA	ND		0.23	0.047	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1
NEtFOSA	ND		0.23	0.028	ug/Kg	✱	05/13/21 11:42	05/14/21 17:57	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-18 (0-1)**

**Lab Sample ID: 320-73544-2**

Date Collected: 05/10/21 14:35

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		2.3	0.45	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
NEtFOSAA	ND		2.3	0.43	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
NMeFOSE	ND		0.23	0.082	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
NEtFOSE	ND		0.23	0.041	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
4:2 FTS	ND		2.3	0.43	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
<b>6:2 FTS</b>	<b>0.17</b>	<b>J</b>	2.3	0.17	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
<b>8:2 FTS</b>	<b>7.1</b>		2.3	0.29	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
HFPO-DA (GenX)	ND		0.29	0.13	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
9Cl-PF3ONS	ND		0.23	0.031	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
11Cl-PF3OUdS	ND		0.23	0.025	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.23	0.021	ug/Kg	☼	05/13/21 11:42	05/14/21 17:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	70		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C5 PFPeA	71		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C2 PFHxA	80		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C4 PFHpA	84		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C4 PFOA	81		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C5 PFNA	87		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C2 PFDA	73		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C2 PFUnA	90		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C2 PFDoA	88		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C2 PFTeDA	85		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C3 PFBS	62		25 - 150	05/13/21 11:42	05/14/21 17:57	1
18O2 PFHxS	64		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C4 PFOS	60		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C8 FOSA	66		10 - 150	05/13/21 11:42	05/14/21 17:57	1
M2-4:2 FTS	81		25 - 150	05/13/21 11:42	05/14/21 17:57	1
M2-6:2 FTS	96		25 - 150	05/13/21 11:42	05/14/21 17:57	1
M2-8:2 FTS	77		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C2 10:2 FTS	74		25 - 150	05/13/21 11:42	05/14/21 17:57	1
13C3 HFPO-DA	74		25 - 150	05/13/21 11:42	05/14/21 17:57	1
d3-NMeFOSAA	58		25 - 150	05/13/21 11:42	05/14/21 17:57	1
d5-NEtFOSAA	62		25 - 150	05/13/21 11:42	05/14/21 17:57	1
d-N-MeFOSA-M	61		10 - 150	05/13/21 11:42	05/14/21 17:57	1
d-N-EtFOSA-M	60		10 - 150	05/13/21 11:42	05/14/21 17:57	1
d7-N-MeFOSE-M	87		10 - 150	05/13/21 11:42	05/14/21 17:57	1
d9-N-EtFOSE-M	82		10 - 150	05/13/21 11:42	05/14/21 17:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.2		0.1	0.1	%			05/13/21 14:39	1
Percent Solids	83.8		0.1	0.1	%			05/13/21 14:39	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-19 (0-1.75)**

**Lab Sample ID: 320-73544-3**

Date Collected: 05/10/21 15:25

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.20	J	0.21	0.030	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluoropentanoic acid (PFPeA)	0.23		0.21	0.082	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorohexanoic acid (PFHxA)	0.19	J	0.21	0.045	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluoroheptanoic acid (PFHpA)	0.24		0.21	0.031	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorooctanoic acid (PFOA)	0.36		0.21	0.092	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorononanoic acid (PFNA)	0.19	J	0.21	0.038	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorodecanoic acid (PFDA)	0.039	J	0.21	0.024	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.038	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorododecanoic acid (PFDoA)	ND		0.21	0.072	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.21	0.055	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.058	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.027	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.21	0.021	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.033	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.21	0.037	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.53	0.21	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorononanesulfonic acid (PFNS)	ND		0.21	0.021	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.042	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.21	0.064	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
Perfluorooctanesulfonamide (FOSA)	ND		0.21	0.088	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
NMeFOSA	ND		0.21	0.044	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
NEtFOSA	ND		0.21	0.026	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
NMeFOSAA	ND		2.1	0.42	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
NEtFOSAA	ND		2.1	0.40	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
NMeFOSE	ND		0.21	0.076	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
NEtFOSE	ND		0.21	0.038	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
4:2 FTS	ND		2.1	0.40	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
6:2 FTS	ND		2.1	0.16	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
8:2 FTS	ND		2.1	0.27	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
HFPO-DA (GenX)	ND		0.27	0.12	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
9Cl-PF3ONS	ND		0.21	0.029	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
11Cl-PF3OUdS	ND		0.21	0.024	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	F1	0.21	0.019	ug/Kg	✱	05/13/21 11:42	05/14/21 18:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C5 PFPeA	73		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C2 PFHxA	75		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C4 PFHpA	76		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C4 PFOA	77		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C5 PFNA	74		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C2 PFDA	73		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C2 PFUnA	70		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C2 PFDoA	67		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C2 PFTeDA	67		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C3 PFBS	56		25 - 150	05/13/21 11:42	05/14/21 18:06	1
18O2 PFHxS	61		25 - 150	05/13/21 11:42	05/14/21 18:06	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-19 (0-1.75)**

**Lab Sample ID: 320-73544-3**

Date Collected: 05/10/21 15:25

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 86.0

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	47		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C8 FOSA	55		10 - 150	05/13/21 11:42	05/14/21 18:06	1
M2-4:2 FTS	71		25 - 150	05/13/21 11:42	05/14/21 18:06	1
M2-6:2 FTS	81		25 - 150	05/13/21 11:42	05/14/21 18:06	1
M2-8:2 FTS	68		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C2 10:2 FTS	57		25 - 150	05/13/21 11:42	05/14/21 18:06	1
13C3 HFPO-DA	71		25 - 150	05/13/21 11:42	05/14/21 18:06	1
d3-NMeFOSAA	51		25 - 150	05/13/21 11:42	05/14/21 18:06	1
d5-NEtFOSAA	48		25 - 150	05/13/21 11:42	05/14/21 18:06	1
d-N-MeFOSA-M	44		10 - 150	05/13/21 11:42	05/14/21 18:06	1
d-N-EtFOSA-M	49		10 - 150	05/13/21 11:42	05/14/21 18:06	1
d7-N-MeFOSE-M	81		10 - 150	05/13/21 11:42	05/14/21 18:06	1
d9-N-EtFOSE-M	64		10 - 150	05/13/21 11:42	05/14/21 18:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.1	%			05/13/21 14:39	1
Percent Solids	86.0		0.1	0.1	%			05/13/21 14:39	1

**Client Sample ID: SB-20 (0-2)**

**Lab Sample ID: 320-73544-4**

Date Collected: 05/10/21 16:15

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.16	J	0.23	0.032	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluoropentanoic acid (PFPeA)	ND		0.23	0.089	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorohexanoic acid (PFHxA)	0.066	J	0.23	0.048	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluoroheptanoic acid (PFHpA)	0.075	J	0.23	0.033	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorooctanoic acid (PFOA)	0.11	J	0.23	0.099	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorononanoic acid (PFNA)	0.072	J	0.23	0.041	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorodecanoic acid (PFDA)	ND		0.23	0.025	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.041	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorododecanoic acid (PFDoA)	ND		0.23	0.077	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.23	0.059	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.062	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.029	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.23	0.023	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.23	0.036	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.23	0.040	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.58	0.23	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorononanesulfonic acid (PFNS)	ND		0.23	0.023	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.045	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.23	0.069	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
Perfluorooctanesulfonamide (FOSA)	ND		0.23	0.094	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
NMeFOSA	ND		0.23	0.047	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
NEtFOSA	ND		0.23	0.028	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1
NMeFOSAA	ND		2.3	0.45	ug/Kg	✱	05/13/21 11:42	05/14/21 18:34	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-20 (0-2)**

**Lab Sample ID: 320-73544-4**

Date Collected: 05/10/21 16:15

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	ND		2.3	0.43	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1
NMeFOSE	ND		0.23	0.082	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1
NEtFOSE	ND		0.23	0.041	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1
4:2 FTS	ND		2.3	0.43	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1
6:2 FTS	ND		2.3	0.17	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1
8:2 FTS	ND		2.3	0.29	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1
HFPO-DA (GenX)	ND		0.29	0.13	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1
9Cl-PF3ONS	ND		0.23	0.031	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1
11Cl-PF3OUdS	ND		0.23	0.025	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.23	0.021	ug/Kg	☼	05/13/21 11:42	05/14/21 18:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	69		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C5 PFPeA	70		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C2 PFHxA	72		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C4 PFHpA	79		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C4 PFOA	72		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C5 PFNA	79		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C2 PFDA	70		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C2 PFUnA	78		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C2 PFDoA	71		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C2 PFTeDA	72		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C3 PFBS	54		25 - 150	05/13/21 11:42	05/14/21 18:34	1
18O2 PFHxS	52		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C4 PFOS	48		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C8 FOSA	57		10 - 150	05/13/21 11:42	05/14/21 18:34	1
M2-4:2 FTS	70		25 - 150	05/13/21 11:42	05/14/21 18:34	1
M2-6:2 FTS	84		25 - 150	05/13/21 11:42	05/14/21 18:34	1
M2-8:2 FTS	80		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C2 10:2 FTS	61		25 - 150	05/13/21 11:42	05/14/21 18:34	1
13C3 HFPO-DA	72		25 - 150	05/13/21 11:42	05/14/21 18:34	1
d3-NMeFOSAA	48		25 - 150	05/13/21 11:42	05/14/21 18:34	1
d5-NEtFOSAA	51		25 - 150	05/13/21 11:42	05/14/21 18:34	1
d-N-MeFOSA-M	46		10 - 150	05/13/21 11:42	05/14/21 18:34	1
d-N-EtFOSA-M	48		10 - 150	05/13/21 11:42	05/14/21 18:34	1
d7-N-MeFOSE-M	78		10 - 150	05/13/21 11:42	05/14/21 18:34	1
d9-N-EtFOSE-M	65		10 - 150	05/13/21 11:42	05/14/21 18:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.7		0.1	0.1	%			05/13/21 14:39	1
Percent Solids	84.3		0.1	0.1	%			05/13/21 14:39	1

**Client Sample ID: SB-21 (0-0.9)**

**Lab Sample ID: 320-73544-5**

Date Collected: 05/10/21 16:55

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.15	J	0.24	0.034	ug/Kg	☼	05/13/21 11:42	05/14/21 18:43	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-21 (0-0.9)**

**Lab Sample ID: 320-73544-5**

Date Collected: 05/10/21 16:55

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	0.17	J	0.24	0.094	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorohexanoic acid (PFHxA)	0.17	J	0.24	0.051	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluoroheptanoic acid (PFHpA)	0.20	J	0.24	0.035	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorooctanoic acid (PFOA)	0.30		0.24	0.10	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorononanoic acid (PFNA)	0.15	J	0.24	0.044	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorodecanoic acid (PFDA)	ND		0.24	0.027	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluoroundecanoic acid (PFUnA)	ND		0.24	0.044	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorododecanoic acid (PFDoA)	ND		0.24	0.082	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.24	0.062	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.24	0.066	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.031	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.24	0.024	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.24	0.038	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.24	0.043	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.61	0.24	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorononanesulfonic acid (PFNS)	ND		0.24	0.024	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.048	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.24	0.073	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
Perfluorooctanesulfonamide (FOSA)	ND		0.24	0.10	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
NMeFOSA	ND		0.24	0.050	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
NEtFOSA	ND		0.24	0.029	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
NMeFOSAA	ND		2.4	0.48	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
NEtFOSAA	ND		2.4	0.45	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
NMeFOSE	ND		0.24	0.087	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
NEtFOSE	ND		0.24	0.044	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
4:2 FTS	ND		2.4	0.45	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
6:2 FTS	ND		2.4	0.18	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
8:2 FTS	ND		2.4	0.31	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
HFPO-DA (GenX)	ND		0.31	0.13	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
9Cl-PF3ONS	ND		0.24	0.033	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
11Cl-PF3OUdS	ND		0.24	0.027	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.24	0.022	ug/Kg	✱	05/13/21 11:42	05/14/21 18:43	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	68		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C5 PFPeA	72		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C2 PFHxA	73		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C4 PFHpA	84		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C4 PFOA	80		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C5 PFNA	90		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C2 PFDA	79		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C2 PFUnA	82		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C2 PFDoA	87		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C2 PFTeDA	84		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C3 PFBS	61		25 - 150	05/13/21 11:42	05/14/21 18:43	1
18O2 PFHxS	57		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C4 PFOS	57		25 - 150	05/13/21 11:42	05/14/21 18:43	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-21 (0-0.9)**

**Lab Sample ID: 320-73544-5**

Date Collected: 05/10/21 16:55

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 81.8

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	73		10 - 150	05/13/21 11:42	05/14/21 18:43	1
M2-4:2 FTS	89		25 - 150	05/13/21 11:42	05/14/21 18:43	1
M2-6:2 FTS	96		25 - 150	05/13/21 11:42	05/14/21 18:43	1
M2-8:2 FTS	94		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C2 10:2 FTS	70		25 - 150	05/13/21 11:42	05/14/21 18:43	1
13C3 HFPO-DA	72		25 - 150	05/13/21 11:42	05/14/21 18:43	1
d3-NMeFOSAA	65		25 - 150	05/13/21 11:42	05/14/21 18:43	1
d5-NEtFOSAA	62		25 - 150	05/13/21 11:42	05/14/21 18:43	1
d-N-MeFOSA-M	60		10 - 150	05/13/21 11:42	05/14/21 18:43	1
d-N-EtFOSA-M	56		10 - 150	05/13/21 11:42	05/14/21 18:43	1
d7-N-MeFOSE-M	84		10 - 150	05/13/21 11:42	05/14/21 18:43	1
d9-N-EtFOSE-M	75		10 - 150	05/13/21 11:42	05/14/21 18:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.2		0.1	0.1 %			05/13/21 14:39	1
Percent Solids	81.8		0.1	0.1 %			05/13/21 14:39	1

**Client Sample ID: SB-22 (0-2)**

**Lab Sample ID: 320-73544-6**

Date Collected: 05/10/21 17:45

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.21		0.20	0.029	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluoropentanoic acid (PFPeA)	0.24		0.20	0.079	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorohexanoic acid (PFHxA)	0.19	J	0.20	0.043	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluoroheptanoic acid (PFHpA)	0.27		0.20	0.030	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorooctanoic acid (PFOA)	0.40		0.20	0.088	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorononanoic acid (PFNA)	0.33		0.20	0.037	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorodecanoic acid (PFDA)	0.043	J	0.20	0.022	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.037	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.068	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.052	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.055	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.026	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.020	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.032	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.20	0.036	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.51	0.20	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.020	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.040	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.061	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
Perfluorooctanesulfonamide (FOSA)	ND		0.20	0.084	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
NMeFOSA	ND		0.20	0.042	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
NEtFOSA	ND		0.20	0.025	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
NMeFOSAA	ND		2.0	0.40	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1
NEtFOSAA	ND		2.0	0.38	ug/Kg	✱	05/13/21 11:42	05/14/21 18:52	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-22 (0-2)**

**Lab Sample ID: 320-73544-6**

Date Collected: 05/10/21 17:45

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	ND		0.20	0.073	ug/Kg	☼	05/13/21 11:42	05/14/21 18:52	1
NEtFOSE	ND		0.20	0.037	ug/Kg	☼	05/13/21 11:42	05/14/21 18:52	1
4:2 FTS	ND		2.0	0.38	ug/Kg	☼	05/13/21 11:42	05/14/21 18:52	1
6:2 FTS	ND		2.0	0.15	ug/Kg	☼	05/13/21 11:42	05/14/21 18:52	1
8:2 FTS	ND		2.0	0.26	ug/Kg	☼	05/13/21 11:42	05/14/21 18:52	1
HFPO-DA (GenX)	ND		0.26	0.11	ug/Kg	☼	05/13/21 11:42	05/14/21 18:52	1
9Cl-PF3ONS	ND		0.20	0.028	ug/Kg	☼	05/13/21 11:42	05/14/21 18:52	1
11Cl-PF3OUdS	ND		0.20	0.022	ug/Kg	☼	05/13/21 11:42	05/14/21 18:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.018	ug/Kg	☼	05/13/21 11:42	05/14/21 18:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	79		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C5 PFPeA	74		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C2 PFHxA	77		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C4 PFHpA	90		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C4 PFOA	79		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C5 PFNA	83		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C2 PFDA	73		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C2 PFUnA	77		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C2 PFDoA	82		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C2 PFTeDA	72		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C3 PFBS	54		25 - 150	05/13/21 11:42	05/14/21 18:52	1
18O2 PFHxS	58		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C4 PFOS	53		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C8 FOSA	62		10 - 150	05/13/21 11:42	05/14/21 18:52	1
M2-4:2 FTS	69		25 - 150	05/13/21 11:42	05/14/21 18:52	1
M2-6:2 FTS	86		25 - 150	05/13/21 11:42	05/14/21 18:52	1
M2-8:2 FTS	83		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C2 10:2 FTS	65		25 - 150	05/13/21 11:42	05/14/21 18:52	1
13C3 HFPO-DA	76		25 - 150	05/13/21 11:42	05/14/21 18:52	1
d3-NMeFOSAA	54		25 - 150	05/13/21 11:42	05/14/21 18:52	1
d5-NEtFOSAA	57		25 - 150	05/13/21 11:42	05/14/21 18:52	1
d-N-MeFOSA-M	50		10 - 150	05/13/21 11:42	05/14/21 18:52	1
d-N-EtFOSA-M	50		10 - 150	05/13/21 11:42	05/14/21 18:52	1
d7-N-MeFOSE-M	82		10 - 150	05/13/21 11:42	05/14/21 18:52	1
d9-N-EtFOSE-M	65		10 - 150	05/13/21 11:42	05/14/21 18:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.1		0.1	0.1	%			05/13/21 14:39	1
Percent Solids	86.9		0.1	0.1	%			05/13/21 14:39	1

**Client Sample ID: SB-23 (0-2)**

**Lab Sample ID: 320-73544-7**

Date Collected: 05/10/21 18:30

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.82		0.24	0.034	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluoropentanoic acid (PFPeA)	2.6		0.24	0.094	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-23 (0-2)**

**Lab Sample ID: 320-73544-7**

Date Collected: 05/10/21 18:30

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.68		0.24	0.051	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluoroheptanoic acid (PFHpA)	1.3		0.24	0.035	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorooctanoic acid (PFOA)	1.4		0.24	0.11	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorononanoic acid (PFNA)	0.89		0.24	0.044	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorodecanoic acid (PFDA)	0.44		0.24	0.027	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluoroundecanoic acid (PFUnA)	0.18	J	0.24	0.044	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorododecanoic acid (PFDoA)	0.11	J	0.24	0.082	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.24	0.062	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.24	0.066	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.031	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.24	0.024	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.24	0.038	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.24	0.043	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.61	0.24	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorononanesulfonic acid (PFNS)	ND		0.24	0.024	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.048	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.24	0.073	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
Perfluorooctanesulfonamide (FOSA)	ND		0.24	0.10	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
NMeFOSA	ND		0.24	0.050	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
NEtFOSA	ND		0.24	0.029	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
NMeFOSAA	ND		2.4	0.48	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
NEtFOSAA	ND		2.4	0.45	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
NMeFOSE	ND		0.24	0.087	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
NEtFOSE	ND		0.24	0.044	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
4:2 FTS	ND		2.4	0.45	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
6:2 FTS	1.5	J	2.4	0.18	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
8:2 FTS	14		2.4	0.31	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
HFPO-DA (GenX)	ND		0.31	0.13	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
9Cl-PF3ONS	ND		0.24	0.033	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
11Cl-PF3OUdS	ND		0.24	0.027	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.24	0.022	ug/Kg	☼	05/13/21 11:42	05/14/21 19:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	81		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C5 PFPeA	76		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C2 PFHxA	90		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C4 PFHpA	92		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C4 PFOA	82		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C5 PFNA	82		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C2 PFDA	75		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C2 PFUnA	88		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C2 PFDoA	75		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C2 PFTeDA	79		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C3 PFBS	63		25 - 150	05/13/21 11:42	05/14/21 19:29	1
18O2 PFHxS	65		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C4 PFOS	54		25 - 150	05/13/21 11:42	05/14/21 19:29	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-23 (0-2)**

**Lab Sample ID: 320-73544-7**

Date Collected: 05/10/21 18:30

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 77.4

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	62		10 - 150	05/13/21 11:42	05/14/21 19:29	1
M2-4:2 FTS	68		25 - 150	05/13/21 11:42	05/14/21 19:29	1
M2-6:2 FTS	94		25 - 150	05/13/21 11:42	05/14/21 19:29	1
M2-8:2 FTS	72		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C2 10:2 FTS	71		25 - 150	05/13/21 11:42	05/14/21 19:29	1
13C3 HFPO-DA	79		25 - 150	05/13/21 11:42	05/14/21 19:29	1
d3-NMeFOSAA	60		25 - 150	05/13/21 11:42	05/14/21 19:29	1
d5-NEtFOSAA	62		25 - 150	05/13/21 11:42	05/14/21 19:29	1
d-N-MeFOSA-M	48		10 - 150	05/13/21 11:42	05/14/21 19:29	1
d-N-EtFOSA-M	51		10 - 150	05/13/21 11:42	05/14/21 19:29	1
d7-N-MeFOSE-M	83		10 - 150	05/13/21 11:42	05/14/21 19:29	1
d9-N-EtFOSE-M	83		10 - 150	05/13/21 11:42	05/14/21 19:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.6		0.1	0.1 %			05/13/21 14:39	1
Percent Solids	77.4		0.1	0.1 %			05/13/21 14:39	1

**Client Sample ID: SB-24 (0-2)**

**Lab Sample ID: 320-73544-9**

Date Collected: 05/10/21 19:00

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.6		0.24	0.034	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluoropentanoic acid (PFPeA)	3.4		0.24	0.092	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorohexanoic acid (PFHxA)	1.1		0.24	0.050	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluoroheptanoic acid (PFHpA)	1.2		0.24	0.035	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorooctanoic acid (PFOA)	3.3		0.24	0.10	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorononanoic acid (PFNA)	0.86		0.24	0.043	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorodecanoic acid (PFDA)	0.14	J	0.24	0.026	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluoroundecanoic acid (PFUnA)	0.059	J	0.24	0.043	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorododecanoic acid (PFDoA)	ND		0.24	0.080	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.24	0.061	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.24	0.065	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.030	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.24	0.024	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.24	0.037	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.24	0.042	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.60	0.24	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorononanesulfonic acid (PFNS)	ND		0.24	0.024	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.047	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.24	0.072	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
Perfluorooctanesulfonamide (FOSA)	ND		0.24	0.098	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
NMeFOSA	ND		0.24	0.049	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
NEtFOSA	ND		0.24	0.029	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
NMeFOSAA	ND		2.4	0.47	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-24 (0-2)**

**Lab Sample ID: 320-73544-9**

Date Collected: 05/10/21 19:00

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	ND		2.4	0.44	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
NMeFOSE	ND		0.24	0.085	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
NEtFOSE	ND		0.24	0.043	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
4:2 FTS	ND		2.4	0.44	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
6:2 FTS	ND		2.4	0.18	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
<b>8:2 FTS</b>	<b>2.0</b>	<b>J</b>	2.4	0.30	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
HFPO-DA (GenX)	ND		0.30	0.13	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
9Cl-PF3ONS	ND		0.24	0.032	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
11Cl-PF3OUdS	ND		0.24	0.026	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.24	0.022	ug/Kg	☼	05/13/21 11:42	05/14/21 19:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	70		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C5 PFPeA	63		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C2 PFHxA	78		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C4 PFHpA	81		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C4 PFOA	73		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C5 PFNA	73		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C2 PFDA	69		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C2 PFUnA	73		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C2 PFDoA	75		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C2 PFTeDA	72		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C3 PFBS	55		25 - 150	05/13/21 11:42	05/14/21 19:38	1
18O2 PFHxS	54		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C4 PFOS	49		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C8 FOSA	58		10 - 150	05/13/21 11:42	05/14/21 19:38	1
M2-4:2 FTS	70		25 - 150	05/13/21 11:42	05/14/21 19:38	1
M2-6:2 FTS	82		25 - 150	05/13/21 11:42	05/14/21 19:38	1
M2-8:2 FTS	66		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C2 10:2 FTS	70		25 - 150	05/13/21 11:42	05/14/21 19:38	1
13C3 HFPO-DA	70		25 - 150	05/13/21 11:42	05/14/21 19:38	1
d3-NMeFOSAA	49		25 - 150	05/13/21 11:42	05/14/21 19:38	1
d5-NEtFOSAA	53		25 - 150	05/13/21 11:42	05/14/21 19:38	1
d-N-MeFOSA-M	44		10 - 150	05/13/21 11:42	05/14/21 19:38	1
d-N-EtFOSA-M	46		10 - 150	05/13/21 11:42	05/14/21 19:38	1
d7-N-MeFOSE-M	79		10 - 150	05/13/21 11:42	05/14/21 19:38	1
d9-N-EtFOSE-M	62		10 - 150	05/13/21 11:42	05/14/21 19:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.3		0.1	0.1	%			05/13/21 14:39	1
Percent Solids	78.7		0.1	0.1	%			05/13/21 14:39	1

**Client Sample ID: SB-25 (0-2)**

**Lab Sample ID: 320-73544-11**

Date Collected: 05/11/21 08:30

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.5		0.22	0.030	ug/Kg	☼	05/13/21 11:42	05/14/21 19:47	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-25 (0-2)**

**Lab Sample ID: 320-73544-11**

**Date Collected: 05/11/21 08:30**

**Matrix: Solid**

**Date Received: 05/12/21 10:15**

**Percent Solids: 84.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	2.7		0.22	0.083	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorohexanoic acid (PFHxA)	1.0		0.22	0.045	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluoroheptanoic acid (PFHpA)	1.3		0.22	0.031	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorooctanoic acid (PFOA)	3.6		0.22	0.093	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorononanoic acid (PFNA)	1.8		0.22	0.039	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorodecanoic acid (PFDA)	0.30		0.22	0.024	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluoroundecanoic acid (PFUnA)	0.12	J	0.22	0.039	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorododecanoic acid (PFDoA)	ND		0.22	0.072	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.22	0.055	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.058	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.027	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.22	0.022	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.033	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.22	0.038	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorooctanesulfonic acid (PFOS)	0.25	J	0.54	0.22	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluoronanesulfonic acid (PFNS)	ND		0.22	0.022	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.042	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.22	0.065	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
Perfluorooctanesulfonamide (FOSA)	ND		0.22	0.088	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
NMeFOSA	ND		0.22	0.044	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
NEtFOSA	ND		0.22	0.026	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
NMeFOSAA	ND		2.2	0.42	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
NEtFOSAA	ND		2.2	0.40	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
NMeFOSE	ND		0.22	0.077	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
NEtFOSE	ND		0.22	0.039	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
4:2 FTS	ND		2.2	0.40	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
6:2 FTS	0.28	J	2.2	0.16	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
8:2 FTS	4.4		2.2	0.27	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
HFPO-DA (GenX)	ND		0.27	0.12	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
9Cl-PF3ONS	ND		0.22	0.029	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
11Cl-PF3OUdS	ND		0.22	0.024	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.22	0.019	ug/Kg	✱	05/13/21 11:42	05/14/21 19:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	74		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C5 PFPeA	69		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C2 PFHxA	74		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C4 PFHpA	87		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C4 PFOA	77		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C5 PFNA	82		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C2 PFDA	77		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C2 PFUnA	74		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C2 PFDoA	79		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C2 PFTeDA	73		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C3 PFBS	60		25 - 150	05/13/21 11:42	05/14/21 19:47	1
18O2 PFHxS	61		25 - 150	05/13/21 11:42	05/14/21 19:47	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-25 (0-2)**

**Lab Sample ID: 320-73544-11**

Date Collected: 05/11/21 08:30

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 84.1

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	55		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C8 FOSA	63		10 - 150	05/13/21 11:42	05/14/21 19:47	1
M2-4:2 FTS	85		25 - 150	05/13/21 11:42	05/14/21 19:47	1
M2-6:2 FTS	91		25 - 150	05/13/21 11:42	05/14/21 19:47	1
M2-8:2 FTS	73		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C2 10:2 FTS	70		25 - 150	05/13/21 11:42	05/14/21 19:47	1
13C3 HFPO-DA	79		25 - 150	05/13/21 11:42	05/14/21 19:47	1
d3-NMeFOSAA	57		25 - 150	05/13/21 11:42	05/14/21 19:47	1
d5-NEtFOSAA	56		25 - 150	05/13/21 11:42	05/14/21 19:47	1
d-N-MeFOSA-M	50		10 - 150	05/13/21 11:42	05/14/21 19:47	1
d-N-EtFOSA-M	52		10 - 150	05/13/21 11:42	05/14/21 19:47	1
d7-N-MeFOSE-M	82		10 - 150	05/13/21 11:42	05/14/21 19:47	1
d9-N-EtFOSE-M	74		10 - 150	05/13/21 11:42	05/14/21 19:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.9		0.1	0.1	%			05/13/21 14:39	1
Percent Solids	84.1		0.1	0.1	%			05/13/21 14:39	1

**Client Sample ID: SB-26 (0-2)**

**Lab Sample ID: 320-73544-13**

Date Collected: 05/11/21 10:25

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.1		0.25	0.035	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluoropentanoic acid (PFPeA)	2.5		0.25	0.095	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorohexanoic acid (PFHxA)	0.80		0.25	0.052	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluoroheptanoic acid (PFHpA)	1.8		0.25	0.036	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorooctanoic acid (PFOA)	2.7		0.25	0.11	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorononanoic acid (PFNA)	3.0		0.25	0.045	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorodecanoic acid (PFDA)	1.2		0.25	0.027	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluoroundecanoic acid (PFUnA)	0.64		0.25	0.045	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorododecanoic acid (PFDoA)	0.17	J	0.25	0.083	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.25	0.063	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorotetradecanoic acid (PFTTeA)	ND		0.25	0.067	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.25	0.031	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.25	0.025	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.25	0.038	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.25	0.043	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorooctanesulfonic acid (PFOS)	0.48	J I	0.62	0.25	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorononanesulfonic acid (PFNS)	ND		0.25	0.025	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.25	0.048	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.25	0.074	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
Perfluorooctanesulfonamide (FOSA)	ND		0.25	0.10	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1
NMeFOSA	ND		0.25	0.051	ug/Kg	✱	05/13/21 11:42	05/14/21 19:56	1

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-26 (0-2)**

**Lab Sample ID: 320-73544-13**

Date Collected: 05/11/21 10:25

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	ND		0.25	0.030	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
NMeFOSAA	ND		2.5	0.48	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
NEtFOSAA	ND		2.5	0.46	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
NMeFOSE	ND		0.25	0.088	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
NEtFOSE	ND		0.25	0.045	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
4:2 FTS	ND		2.5	0.46	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
<b>6:2 FTS</b>	<b>1.4</b>	<b>J</b>	2.5	0.19	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
<b>8:2 FTS</b>	<b>22</b>		2.5	0.31	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
HFPO-DA (GenX)	ND		0.31	0.14	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
9Cl-PF3ONS	ND		0.25	0.033	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
11Cl-PF3OUdS	ND		0.25	0.027	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.25	0.022	ug/Kg	☼	05/13/21 11:42	05/14/21 19:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	86		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C5 PFPeA	80		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C2 PFHxA	92		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C4 PFHpA	86		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C4 PFOA	84		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C5 PFNA	89		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C2 PFDA	79		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C2 PFUnA	80		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C2 PFDoA	91		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C2 PFTeDA	82		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C3 PFBS	63		25 - 150	05/13/21 11:42	05/14/21 19:56	1
18O2 PFHxS	60		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C4 PFOS	58		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C8 FOSA	66		10 - 150	05/13/21 11:42	05/14/21 19:56	1
M2-4:2 FTS	106		25 - 150	05/13/21 11:42	05/14/21 19:56	1
M2-6:2 FTS	113		25 - 150	05/13/21 11:42	05/14/21 19:56	1
M2-8:2 FTS	76		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C2 10:2 FTS	79		25 - 150	05/13/21 11:42	05/14/21 19:56	1
13C3 HFPO-DA	74		25 - 150	05/13/21 11:42	05/14/21 19:56	1
d3-NMeFOSAA	51		25 - 150	05/13/21 11:42	05/14/21 19:56	1
d5-NEtFOSAA	71		25 - 150	05/13/21 11:42	05/14/21 19:56	1
d-N-MeFOSA-M	53		10 - 150	05/13/21 11:42	05/14/21 19:56	1
d-N-EtFOSA-M	57		10 - 150	05/13/21 11:42	05/14/21 19:56	1
d7-N-MeFOSE-M	90		10 - 150	05/13/21 11:42	05/14/21 19:56	1
d9-N-EtFOSE-M	79		10 - 150	05/13/21 11:42	05/14/21 19:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.9		0.1	0.1	%			05/13/21 14:39	1
Percent Solids	78.1		0.1	0.1	%			05/13/21 14:39	1

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SS-04**

**Lab Sample ID: 320-73544-14**

Date Collected: 05/11/21 10:45

Matrix: Solid

Date Received: 05/12/21 10:15

Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.5		0.27	0.037	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluoropentanoic acid (PFPeA)	2.7		0.27	0.10	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorohexanoic acid (PFHxA)	1.3		0.27	0.056	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluoroheptanoic acid (PFHpA)	3.4		0.27	0.039	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorooctanoic acid (PFOA)	4.8		0.27	0.11	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorononanoic acid (PFNA)	3.6		0.27	0.048	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorodecanoic acid (PFDA)	2.1		0.27	0.029	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluoroundecanoic acid (PFUnA)	1.7		0.27	0.048	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorododecanoic acid (PFDoA)	0.87		0.27	0.090	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorotridecanoic acid (PFTrDA)	0.19	J	0.27	0.068	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorotetradecanoic acid (PFTeA)	0.15	J	0.27	0.072	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.27	0.033	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.27	0.027	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.27	0.041	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.27	0.047	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorooctanesulfonic acid (PFOS)	0.42	J I	0.67	0.27	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorononanesulfonic acid (PFNS)	ND		0.27	0.027	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.27	0.052	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.27	0.080	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
Perfluorooctanesulfonamide (FOSA)	ND		0.27	0.11	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
NMeFOSA	ND		0.27	0.055	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
NEtFOSA	ND		0.27	0.032	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
NMeFOSAA	ND		2.7	0.52	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
NEtFOSAA	ND		2.7	0.49	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
NMeFOSE	ND		0.27	0.095	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
NEtFOSE	ND		0.27	0.048	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
4:2 FTS	ND		2.7	0.49	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
6:2 FTS	0.38	J	2.7	0.20	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
8:2 FTS	5.3		2.7	0.33	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
HFPO-DA (GenX)	ND		0.33	0.15	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
9Cl-PF3ONS	ND		0.27	0.036	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
11Cl-PF3OUdS	ND		0.27	0.029	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.27	0.024	ug/Kg	✳	05/13/21 11:42	05/14/21 20:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	61		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C5 PFPeA	61		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C2 PFHxA	67		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C4 PFHpA	71		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C4 PFOA	71		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C5 PFNA	65		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C2 PFDA	69		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C2 PFUnA	80		25 - 150	05/13/21 11:42	05/14/21 20:05	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SS-04**

**Date Collected: 05/11/21 10:45**

**Date Received: 05/12/21 10:15**

**Lab Sample ID: 320-73544-14**

**Matrix: Solid**

**Percent Solids: 74.1**

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	71		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C2 PFTeDA	64		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C3 PFBS	51		25 - 150	05/13/21 11:42	05/14/21 20:05	1
18O2 PFHxS	52		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C4 PFOS	51		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C8 FOSA	57		10 - 150	05/13/21 11:42	05/14/21 20:05	1
M2-4:2 FTS	116		25 - 150	05/13/21 11:42	05/14/21 20:05	1
M2-6:2 FTS	132		25 - 150	05/13/21 11:42	05/14/21 20:05	1
M2-8:2 FTS	104		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C2 10:2 FTS	87		25 - 150	05/13/21 11:42	05/14/21 20:05	1
13C3 HFPO-DA	59		25 - 150	05/13/21 11:42	05/14/21 20:05	1
d3-NMeFOSAA	51		25 - 150	05/13/21 11:42	05/14/21 20:05	1
d5-NEtFOSAA	60		25 - 150	05/13/21 11:42	05/14/21 20:05	1
d-N-MeFOSA-M	51		10 - 150	05/13/21 11:42	05/14/21 20:05	1
d-N-EtFOSA-M	49		10 - 150	05/13/21 11:42	05/14/21 20:05	1
d7-N-MeFOSE-M	72		10 - 150	05/13/21 11:42	05/14/21 20:05	1
d9-N-EtFOSE-M	68		10 - 150	05/13/21 11:42	05/14/21 20:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.9		0.1	0.1 %			05/13/21 14:39	1
Percent Solids	74.1		0.1	0.1 %			05/13/21 14:39	1

**Client Sample ID: EB-06-202105**

**Date Collected: 05/11/21 13:25**

**Date Received: 05/12/21 10:15**

**Lab Sample ID: 320-73544-15**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.3	2.1	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.42	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.50	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.22	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.74	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.27	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.95	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.48	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	1.1	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.63	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.17	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.26	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.49	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.47	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.32	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28	ng/L		05/14/21 07:12	05/15/21 13:43	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.84	ng/L		05/14/21 07:12	05/15/21 13:43	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: EB-06-202105**

**Lab Sample ID: 320-73544-15**

Date Collected: 05/11/21 13:25

Matrix: Water

Date Received: 05/12/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.85	ng/L		05/14/21 07:12	05/15/21 13:43	1
NEtFOSA	ND		1.7	0.75	ng/L		05/14/21 07:12	05/15/21 13:43	1
NMeFOSA	ND		1.7	0.37	ng/L		05/14/21 07:12	05/15/21 13:43	1
NMeFOSAA	ND		4.3	1.0	ng/L		05/14/21 07:12	05/15/21 13:43	1
NEtFOSAA	ND		4.3	1.1	ng/L		05/14/21 07:12	05/15/21 13:43	1
NMeFOSE	ND		3.5	1.2	ng/L		05/14/21 07:12	05/15/21 13:43	1
NEtFOSE	ND		1.7	0.74	ng/L		05/14/21 07:12	05/15/21 13:43	1
4:2 FTS	ND		1.7	0.21	ng/L		05/14/21 07:12	05/15/21 13:43	1
6:2 FTS	ND		4.3	2.2	ng/L		05/14/21 07:12	05/15/21 13:43	1
8:2 FTS	ND		1.7	0.40	ng/L		05/14/21 07:12	05/15/21 13:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.35	ng/L		05/14/21 07:12	05/15/21 13:43	1
HFPO-DA (GenX)	ND		3.5	1.3	ng/L		05/14/21 07:12	05/15/21 13:43	1
9Cl-PF3ONS	ND		1.7	0.21	ng/L		05/14/21 07:12	05/15/21 13:43	1
11Cl-PF3OUdS	ND		1.7	0.28	ng/L		05/14/21 07:12	05/15/21 13:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C5 PFPeA	90		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C2 PFHxA	91		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C4 PFHpA	94		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C4 PFOA	100		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C5 PFNA	92		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C2 PFDA	95		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C2 PFUnA	96		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C2 PFDoA	84		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C2 PFTeDA	88		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C3 PFBS	84		25 - 150				05/14/21 07:12	05/15/21 13:43	1
18O2 PFHxS	98		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C4 PFOS	90		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C8 FOSA	86		10 - 150				05/14/21 07:12	05/15/21 13:43	1
d3-NMeFOSAA	82		25 - 150				05/14/21 07:12	05/15/21 13:43	1
d5-NEtFOSAA	83		25 - 150				05/14/21 07:12	05/15/21 13:43	1
d-N-MeFOSA-M	74		10 - 150				05/14/21 07:12	05/15/21 13:43	1
d-N-EtFOSA-M	67		10 - 150				05/14/21 07:12	05/15/21 13:43	1
d7-N-MeFOSE-M	83		10 - 150				05/14/21 07:12	05/15/21 13:43	1
d9-N-EtFOSE-M	63		10 - 150				05/14/21 07:12	05/15/21 13:43	1
M2-4:2 FTS	115		25 - 150				05/14/21 07:12	05/15/21 13:43	1
M2-6:2 FTS	118		25 - 150				05/14/21 07:12	05/15/21 13:43	1
M2-8:2 FTS	129		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C3 HFPO-DA	85		25 - 150				05/14/21 07:12	05/15/21 13:43	1
13C2 10:2 FTS	92		25 - 150				05/14/21 07:12	05/15/21 13:43	1

**Client Sample ID: EB-07-202105**

**Lab Sample ID: 320-73544-16**

Date Collected: 05/11/21 13:15

Matrix: Water

Date Received: 05/12/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.7	2.3	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.46	ng/L		05/14/21 07:12	05/15/21 13:53	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: EB-07-202105**

**Lab Sample ID: 320-73544-16**

**Date Collected: 05/11/21 13:15**

**Matrix: Water**

**Date Received: 05/12/21 10:15**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.54	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.23	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.80	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.25	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.29	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.52	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.9	1.2	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.69	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.19	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.28	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.54	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.51	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.35	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.91	ng/L		05/14/21 07:12	05/15/21 13:53	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.92	ng/L		05/14/21 07:12	05/15/21 13:53	1
NEtFOSA	ND		1.9	0.82	ng/L		05/14/21 07:12	05/15/21 13:53	1
NMeFOSA	ND		1.9	0.40	ng/L		05/14/21 07:12	05/15/21 13:53	1
NMeFOSAA	ND		4.7	1.1	ng/L		05/14/21 07:12	05/15/21 13:53	1
NEtFOSAA	ND		4.7	1.2	ng/L		05/14/21 07:12	05/15/21 13:53	1
NMeFOSE	ND		3.8	1.3	ng/L		05/14/21 07:12	05/15/21 13:53	1
NEtFOSE	ND		1.9	0.80	ng/L		05/14/21 07:12	05/15/21 13:53	1
4:2 FTS	ND		1.9	0.23	ng/L		05/14/21 07:12	05/15/21 13:53	1
6:2 FTS	ND		4.7	2.3	ng/L		05/14/21 07:12	05/15/21 13:53	1
8:2 FTS	ND		1.9	0.43	ng/L		05/14/21 07:12	05/15/21 13:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.38	ng/L		05/14/21 07:12	05/15/21 13:53	1
HFPO-DA (GenX)	ND		3.8	1.4	ng/L		05/14/21 07:12	05/15/21 13:53	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		05/14/21 07:12	05/15/21 13:53	1
11Cl-PF3OUdS	ND		1.9	0.30	ng/L		05/14/21 07:12	05/15/21 13:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	89		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C5 PFPeA	83		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C2 PFHxA	89		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C4 PFHpA	94		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C4 PFOA	91		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C5 PFNA	93		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C2 PFDA	92		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C2 PFUnA	93		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C2 PFDoA	86		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C2 PFTeDA	84		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C3 PFBS	86		25 - 150	05/14/21 07:12	05/15/21 13:53	1
18O2 PFHxS	92		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C4 PFOS	88		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C8 FOSA	90		10 - 150	05/14/21 07:12	05/15/21 13:53	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: EB-07-202105**

**Lab Sample ID: 320-73544-16**

**Date Collected: 05/11/21 13:15**

**Matrix: Water**

**Date Received: 05/12/21 10:15**

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d3-NMeFOSAA	76		25 - 150	05/14/21 07:12	05/15/21 13:53	1
d5-NEtFOSAA	80		25 - 150	05/14/21 07:12	05/15/21 13:53	1
d-N-MeFOSA-M	76		10 - 150	05/14/21 07:12	05/15/21 13:53	1
d-N-EtFOSA-M	72		10 - 150	05/14/21 07:12	05/15/21 13:53	1
d7-N-MeFOSE-M	79		10 - 150	05/14/21 07:12	05/15/21 13:53	1
d9-N-EtFOSE-M	70		10 - 150	05/14/21 07:12	05/15/21 13:53	1
M2-4:2 FTS	106		25 - 150	05/14/21 07:12	05/15/21 13:53	1
M2-6:2 FTS	107		25 - 150	05/14/21 07:12	05/15/21 13:53	1
M2-8:2 FTS	118		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C3 HFPO-DA	80		25 - 150	05/14/21 07:12	05/15/21 13:53	1
13C2 10:2 FTS	97		25 - 150	05/14/21 07:12	05/15/21 13:53	1



# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-73544-1	SB-17 (0-1.5)	69	75	75	84	80	76	85	77
320-73544-2	SB-18 (0-1)	70	71	80	84	81	87	73	90
320-73544-3	SB-19 (0-1.75)	78	73	75	76	77	74	73	70
320-73544-3 MS	SB-19 (0-1.75)	65	71	70	70	76	73	67	73
320-73544-3 MSD	SB-19 (0-1.75)	71	70	79	81	76	76	71	72
320-73544-4	SB-20 (0-2)	69	70	72	79	72	79	70	78
320-73544-5	SB-21 (0-0.9)	68	72	73	84	80	90	79	82
320-73544-6	SB-22 (0-2)	79	74	77	90	79	83	73	77
320-73544-7	SB-23 (0-2)	81	76	90	92	82	82	75	88
320-73544-9	SB-24 (0-2)	70	63	78	81	73	73	69	73
320-73544-11	SB-25 (0-2)	74	69	74	87	77	82	77	74
320-73544-13	SB-26 (0-2)	86	80	92	86	84	89	79	80
320-73544-14	SS-04	61	61	67	71	71	65	69	80
LCS 320-488688/2-A	Lab Control Sample	84	82	89	92	91	100	88	94
MB 320-488688/1-A	Method Blank	83	78	87	93	83	78	75	81

  

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	M242FTS (25-150)	M262FTS (25-150)
320-73544-1	SB-17 (0-1.5)	72	74	55	58	50	61	74	92
320-73544-2	SB-18 (0-1)	88	85	62	64	60	66	81	96
320-73544-3	SB-19 (0-1.75)	67	67	56	61	47	55	71	81
320-73544-3 MS	SB-19 (0-1.75)	69	66	54	51	48	53	68	88
320-73544-3 MSD	SB-19 (0-1.75)	75	72	58	59	52	59	69	81
320-73544-4	SB-20 (0-2)	71	72	54	52	48	57	70	84
320-73544-5	SB-21 (0-0.9)	87	84	61	57	57	73	89	96
320-73544-6	SB-22 (0-2)	82	72	54	58	53	62	69	86
320-73544-7	SB-23 (0-2)	75	79	63	65	54	62	68	94
320-73544-9	SB-24 (0-2)	75	72	55	54	49	58	70	82
320-73544-11	SB-25 (0-2)	79	73	60	61	55	63	85	91
320-73544-13	SB-26 (0-2)	91	82	63	60	58	66	106	113
320-73544-14	SS-04	71	64	51	52	51	57	116	132
LCS 320-488688/2-A	Lab Control Sample	94	95	73	81	73	77	74	101
MB 320-488688/1-A	Method Blank	89	77	60	67	54	59	75	98

  

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M282FTS (25-150)	M102FTS (25-150)	HFPODA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)
320-73544-1	SB-17 (0-1.5)	77	56	72	49	55	50	51	75
320-73544-2	SB-18 (0-1)	77	74	74	58	62	61	60	87
320-73544-3	SB-19 (0-1.75)	68	57	71	51	48	44	49	81
320-73544-3 MS	SB-19 (0-1.75)	65	53	69	49	48	47	45	79
320-73544-3 MSD	SB-19 (0-1.75)	70	65	70	49	51	54	53	82
320-73544-4	SB-20 (0-2)	80	61	72	48	51	46	48	78
320-73544-5	SB-21 (0-0.9)	94	70	72	65	62	60	56	84
320-73544-6	SB-22 (0-2)	83	65	76	54	57	50	50	82
320-73544-7	SB-23 (0-2)	72	71	79	60	62	48	51	83
320-73544-9	SB-24 (0-2)	66	70	70	49	53	44	46	79
320-73544-11	SB-25 (0-2)	73	70	79	57	56	50	52	82
320-73544-13	SB-26 (0-2)	76	79	74	51	71	53	57	90
320-73544-14	SS-04	104	87	59	51	60	51	49	72

# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

Matrix: Solid

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M282FTS (25-150)	M102FTS (25-150)	HFPODA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)
LCS 320-488688/2-A	Lab Control Sample	89	84	83	80	69	52	52	89
MB 320-488688/1-A	Method Blank	76	64	80	68	69	42	41	75

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NEFM (10-150)
320-73544-1	SB-17 (0-1.5)	70
320-73544-2	SB-18 (0-1)	82
320-73544-3	SB-19 (0-1.75)	64
320-73544-3 MS	SB-19 (0-1.75)	65
320-73544-3 MSD	SB-19 (0-1.75)	68
320-73544-4	SB-20 (0-2)	65
320-73544-5	SB-21 (0-0.9)	75
320-73544-6	SB-22 (0-2)	65
320-73544-7	SB-23 (0-2)	83
320-73544-9	SB-24 (0-2)	62
320-73544-11	SB-25 (0-2)	74
320-73544-13	SB-26 (0-2)	79
320-73544-14	SS-04	68
LCS 320-488688/2-A	Lab Control Sample	78
MB 320-488688/1-A	Method Blank	66

#### 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
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- M102FTS = 13C2 10:2 FTS
- HFPODA = 13C3 HFPO-DA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- dMeFOSA = d-N-MeFOSA-M
- dEtFOSA = d-N-EtFOSA-M
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M

# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Matrix: Water**

**Prep Type: Total/NA**

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-73544-15	EB-06-202105	93	90	91	94	100	92	95	96
320-73544-16	EB-07-202105	89	83	89	94	91	93	92	93
LCS 320-488951/2-A	Lab Control Sample	89	86	88	98	102	95	96	93
LCSD 320-488951/3-A	Lab Control Sample Dup	89	90	92	97	93	96	93	95
MB 320-488951/1-A	Method Blank	89	87	88	92	89	92	86	90

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-73544-15	EB-06-202105	84	88	84	98	90	86	82	83
320-73544-16	EB-07-202105	86	84	86	92	88	90	76	80
LCS 320-488951/2-A	Lab Control Sample	93	82	89	93	97	91	98	88
LCSD 320-488951/3-A	Lab Control Sample Dup	95	84	84	92	96	90	97	89
MB 320-488951/1-A	Method Blank	93	86	86	91	88	88	99	94

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
320-73544-15	EB-06-202105	74	67	83	63	115	118	129	85
320-73544-16	EB-07-202105	76	72	79	70	106	107	118	80
LCS 320-488951/2-A	Lab Control Sample	73	76	85	87	93	102	90	87
LCSD 320-488951/3-A	Lab Control Sample Dup	79	78	96	87	91	109	91	85
MB 320-488951/1-A	Method Blank	69	78	89	88	93	104	83	82

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M102FTS (25-150)
320-73544-15	EB-06-202105	92
320-73544-16	EB-07-202105	97
LCS 320-488951/2-A	Lab Control Sample	95
LCSD 320-488951/3-A	Lab Control Sample Dup	91
MB 320-488951/1-A	Method Blank	100

#### 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
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- dMeFOSA = d-N-MeFOSA-M
- dEtFOSA = d-N-EtFOSA-M
- NMFM = d7-N-MeFOSE-M

# Isotope Dilution Summary

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

NEFM = d9-N-EtFOSE-M  
M242FTS = M2-4:2 FTS  
M262FTS = M2-6:2 FTS  
M282FTS = M2-8:2 FTS  
HFPODA = 13C3 HFPO-DA  
M102FTS = 13C2 10:2 FTS

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

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Lab Sample ID: MB 320-488688/1-A**  
**Matrix: Solid**  
**Analysis Batch: 489085**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 488688**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.20	0.028	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.077	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.042	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.029	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.086	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.036	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.022	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.036	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.067	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20	0.051	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.054	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.025	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.020	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.031	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.20	0.035	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.50	0.20	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.020	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.039	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
Perfluorooctanesulfonamide (FOSA)	ND		0.20	0.082	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
NEtFOSA	ND		0.20	0.024	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
NMeFOSA	ND		0.20	0.041	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
NMeFOSAA	ND		2.0	0.39	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
NEtFOSAA	ND		2.0	0.37	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
NMeFOSE	ND		0.20	0.071	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
NEtFOSE	ND		0.20	0.036	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
4:2 FTS	ND		2.0	0.37	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
6:2 FTS	ND		2.0	0.15	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
8:2 FTS	ND		2.0	0.25	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
HFPO-DA (GenX)	ND		0.25	0.11	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
9Cl-PF3ONS	ND		0.20	0.027	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
11Cl-PF3OUdS	ND		0.20	0.022	ug/Kg		05/13/21 11:42	05/14/21 17:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.018	ug/Kg		05/13/21 11:42	05/14/21 17:30	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	83		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C5 PFPeA	78		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C2 PFHxA	87		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C4 PFHpA	93		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C4 PFOA	83		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C5 PFNA	78		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C2 PFDA	75		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C2 PFUnA	81		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C2 PFDoA	89		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C2 PFTeDA	77		25 - 150	05/13/21 11:42	05/14/21 17:30	1

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Lab Sample ID: MB 320-488688/1-A**  
**Matrix: Solid**  
**Analysis Batch: 489085**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 488688**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	60		25 - 150	05/13/21 11:42	05/14/21 17:30	1
18O2 PFHxS	67		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C4 PFOS	54		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C8 FOSA	59		10 - 150	05/13/21 11:42	05/14/21 17:30	1
d3-NMeFOSAA	68		25 - 150	05/13/21 11:42	05/14/21 17:30	1
d5-NEtFOSAA	69		25 - 150	05/13/21 11:42	05/14/21 17:30	1
M2-4:2 FTS	75		25 - 150	05/13/21 11:42	05/14/21 17:30	1
d-N-MeFOSA-M	42		10 - 150	05/13/21 11:42	05/14/21 17:30	1
M2-6:2 FTS	98		25 - 150	05/13/21 11:42	05/14/21 17:30	1
d-N-EtFOSA-M	41		10 - 150	05/13/21 11:42	05/14/21 17:30	1
M2-8:2 FTS	76		25 - 150	05/13/21 11:42	05/14/21 17:30	1
13C3 HFPO-DA	80		25 - 150	05/13/21 11:42	05/14/21 17:30	1
d7-N-MeFOSE-M	75		10 - 150	05/13/21 11:42	05/14/21 17:30	1
13C2 10:2 FTS	64		25 - 150	05/13/21 11:42	05/14/21 17:30	1
d9-N-EtFOSE-M	66		10 - 150	05/13/21 11:42	05/14/21 17:30	1

**Lab Sample ID: LCS 320-488688/2-A**  
**Matrix: Solid**  
**Analysis Batch: 489085**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 488688**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Perfluoropentanoic acid (PFPeA)	2.00	2.28		ug/Kg		114	60 - 135	
Perfluorohexanoic acid (PFHxA)	2.00	2.00		ug/Kg		100	60 - 135	
Perfluoroheptanoic acid (PFHpA)	2.00	2.07		ug/Kg		104	60 - 135	
Perfluorooctanoic acid (PFOA)	2.00	2.25		ug/Kg		113	60 - 135	
Perfluorononanoic acid (PFNA)	2.00	1.91		ug/Kg		95	60 - 135	
Perfluorodecanoic acid (PFDA)	2.00	2.19		ug/Kg		109	60 - 135	
Perfluoroundecanoic acid (PFUnA)	2.00	1.93		ug/Kg		97	60 - 135	
Perfluorododecanoic acid (PFDoA)	2.00	2.12		ug/Kg		106	60 - 135	
Perfluorotridecanoic acid (PFTrDA)	2.00	2.10		ug/Kg		105	60 - 135	
Perfluorotetradecanoic acid (PFTeA)	2.00	2.01		ug/Kg		101	60 - 135	
Perfluorobutanesulfonic acid (PFBS)	1.77	2.06		ug/Kg		117	60 - 135	
Perfluoropentanesulfonic acid (PFPeS)	1.88	2.16		ug/Kg		115	60 - 135	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.86		ug/Kg		102	60 - 135	
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.05		ug/Kg		108	60 - 135	
Perfluorooctanesulfonic acid (PFOS)	1.86	2.02		ug/Kg		109	60 - 135	
Perfluorononanesulfonic acid (PFNS)	1.92	2.03		ug/Kg		106	60 - 135	
Perfluorodecanesulfonic acid (PFDS)	1.93	1.81		ug/Kg		94	60 - 135	
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.82		ug/Kg		94	60 - 135	

Eurofins TestAmerica, Sacramento



# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Lab Sample ID: LCS 320-488688/2-A**  
**Matrix: Solid**  
**Analysis Batch: 489085**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 488688**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonamide (FOSA)	2.00	2.07		ug/Kg		103	60 - 135
NEtFOSA	2.00	2.17		ug/Kg		108	60 - 135
NMeFOSA	2.00	2.08		ug/Kg		104	60 - 135
NMeFOSAA	2.00	2.08		ug/Kg		104	60 - 135
NEtFOSAA	2.00	2.28		ug/Kg		114	60 - 135
NMeFOSE	2.00	2.20		ug/Kg		110	60 - 135
NEtFOSE	2.00	2.15		ug/Kg		108	60 - 135
4:2 FTS	1.87	2.14		ug/Kg		115	60 - 135
6:2 FTS	1.90	2.10		ug/Kg		111	60 - 135
8:2 FTS	1.92	2.24		ug/Kg		117	60 - 135
HFPO-DA (GenX)	2.00	2.36		ug/Kg		118	60 - 135
9Cl-PF3ONS	1.86	2.18		ug/Kg		117	60 - 135
11Cl-PF3OUdS	1.88	2.12		ug/Kg		113	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.88	2.38		ug/Kg		126	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	84		25 - 150
13C5 PFPeA	82		25 - 150
13C2 PFHxA	89		25 - 150
13C4 PFHpA	92		25 - 150
13C4 PFOA	91		25 - 150
13C5 PFNA	100		25 - 150
13C2 PFDA	88		25 - 150
13C2 PFUnA	94		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	95		25 - 150
13C3 PFBS	73		25 - 150
18O2 PFHxS	81		25 - 150
13C4 PFOS	73		25 - 150
13C8 FOSA	77		10 - 150
d3-NMeFOSAA	80		25 - 150
d5-NEtFOSAA	69		25 - 150
M2-4:2 FTS	74		25 - 150
d-N-MeFOSA-M	52		10 - 150
M2-6:2 FTS	101		25 - 150
d-N-EtFOSA-M	52		10 - 150
M2-8:2 FTS	89		25 - 150
13C3 HFPO-DA	83		25 - 150
d7-N-MeFOSE-M	89		10 - 150
13C2 10:2 FTS	84		25 - 150
d9-N-EtFOSE-M	78		10 - 150



# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Lab Sample ID: 320-73544-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 489085**

**Client Sample ID: SB-19 (0-1.75)**  
**Prep Type: Total/NA**  
**Prep Batch: 488688**

<i>Isotope Dilution</i>	<i>MS</i>	<i>MS</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>		
13C4 PFHpA	70		25 - 150
13C4 PFOA	76		25 - 150
13C5 PFNA	73		25 - 150
13C2 PFDA	67		25 - 150
13C2 PFUnA	73		25 - 150
13C2 PFDaA	69		25 - 150
13C2 PFTeDA	66		25 - 150
13C3 PFBS	54		25 - 150
18O2 PFHxS	51		25 - 150
13C4 PFOS	48		25 - 150
13C8 FOSA	53		10 - 150
d3-NMeFOSAA	49		25 - 150
d5-NEtFOSAA	48		25 - 150
M2-4:2 FTS	68		25 - 150
d-N-MeFOSA-M	47		10 - 150
M2-6:2 FTS	88		25 - 150
d-N-EtFOSA-M	45		10 - 150
M2-8:2 FTS	65		25 - 150
13C3 HFPO-DA	69		25 - 150
d7-N-MeFOSE-M	79		10 - 150
13C2 10:2 FTS	53		25 - 150
d9-N-EtFOSE-M	65		10 - 150

**Lab Sample ID: 320-73544-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 489085**

**Client Sample ID: SB-19 (0-1.75)**  
**Prep Type: Total/NA**  
**Prep Batch: 488688**

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MSD</i>	<i>MSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>RPD</i>	
Perfluorobutanoic acid (PFBA)	0.20	J	2.10	2.40		ug/Kg	☼	105	70 - 130	3	30
Perfluoropentanoic acid (PFPeA)	0.23		2.10	2.56		ug/Kg	☼	111	70 - 130	9	30
Perfluorohexanoic acid (PFHxA)	0.19	J	2.10	2.46		ug/Kg	☼	108	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	0.24		2.10	2.49		ug/Kg	☼	107	70 - 130	9	30
Perfluorooctanoic acid (PFOA)	0.36		2.10	2.85		ug/Kg	☼	119	70 - 130	8	30
Perfluorononanoic acid (PFNA)	0.19	J	2.10	2.26		ug/Kg	☼	99	70 - 130	6	30
Perfluorodecanoic acid (PFDA)	0.039	J	2.10	2.26		ug/Kg	☼	106	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	ND		2.10	2.13		ug/Kg	☼	102	70 - 130	18	30
Perfluorododecanoic acid (PFDaA)	ND		2.10	2.28		ug/Kg	☼	109	70 - 130	1	30
Perfluorotridecanoic acid (PFTTrDA)	ND		2.10	2.23		ug/Kg	☼	107	70 - 130	12	30
Perfluorotetradecanoic acid (PFTeA)	ND		2.10	2.24		ug/Kg	☼	107	70 - 130	9	30
Perfluorobutanesulfonic acid (PFBS)	ND		1.85	2.03		ug/Kg	☼	110	70 - 130	3	30
Perfluoropentanesulfonic acid (PFPeS)	ND		1.97	1.91		ug/Kg	☼	97	70 - 130	3	30
Perfluorohexanesulfonic acid (PFHxS)	ND		1.91	2.00		ug/Kg	☼	105	70 - 130	1	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.00	2.44		ug/Kg	☼	122	70 - 130	15	30

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Lab Sample ID: 320-73544-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 489085**

**Client Sample ID: SB-19 (0-1.75)**  
**Prep Type: Total/NA**  
**Prep Batch: 488688**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	ND		1.94	2.11		ug/Kg	⊛	108	70 - 130	0	30
Perfluorononanesulfonic acid (PFNS)	ND		2.01	2.18		ug/Kg	⊛	108	70 - 130	14	30
Perfluorodecanesulfonic acid (PFDS)	ND		2.02	2.02		ug/Kg	⊛	100	70 - 130	7	30
Perfluorododecanesulfonic acid (PFDoS)	ND		2.03	2.04		ug/Kg	⊛	101	70 - 130	3	30
Perfluorooctanesulfonamide (FOSA)	ND		2.10	2.31		ug/Kg	⊛	110	70 - 130	9	30
NEtFOSA	ND		2.10	2.41		ug/Kg	⊛	115	70 - 130	3	30
NMeFOSA	ND		2.10	2.15		ug/Kg	⊛	103	70 - 130	9	30
NMeFOSAA	ND		2.10	2.25		ug/Kg	⊛	108	70 - 130	10	30
NEtFOSAA	ND		2.10	2.46		ug/Kg	⊛	117	70 - 130	10	30
NMeFOSE	ND		2.10	2.17		ug/Kg	⊛	104	70 - 130	15	30
NEtFOSE	ND		2.10	2.39		ug/Kg	⊛	114	70 - 130	19	30
4:2 FTS	ND		1.96	2.31		ug/Kg	⊛	118	70 - 130	16	30
6:2 FTS	ND		1.99	2.25		ug/Kg	⊛	113	70 - 130	15	30
8:2 FTS	ND		2.01	2.43		ug/Kg	⊛	121	70 - 130	7	30
HFPO-DA (GenX)	ND		2.10	2.34		ug/Kg	⊛	112	70 - 130	11	30
9CI-PF3ONS	ND		1.95	2.29		ug/Kg	⊛	117	70 - 130	11	30
11CI-PF3OUdS	ND		1.97	2.43		ug/Kg	⊛	123	70 - 130	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	F1	1.97	2.83	F1	ug/Kg	⊛	143	70 - 130	3	30

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	71		25 - 150
13C5 PFPeA	70		25 - 150
13C2 PFHxA	79		25 - 150
13C4 PFHpA	81		25 - 150
13C4 PFOA	76		25 - 150
13C5 PFNA	76		25 - 150
13C2 PFDA	71		25 - 150
13C2 PFUnA	72		25 - 150
13C2 PFDoA	75		25 - 150
13C2 PFTeDA	72		25 - 150
13C3 PFBS	58		25 - 150
18O2 PFHxS	59		25 - 150
13C4 PFOS	52		25 - 150
13C8 FOSA	59		10 - 150
d3-NMeFOSAA	49		25 - 150
d5-NEtFOSAA	51		25 - 150
M2-4:2 FTS	69		25 - 150
d-N-MeFOSA-M	54		10 - 150
M2-6:2 FTS	81		25 - 150
d-N-EtFOSA-M	53		10 - 150
M2-8:2 FTS	70		25 - 150
13C3 HFPO-DA	70		25 - 150
d7-N-MeFOSE-M	82		10 - 150
13C2 10:2 FTS	65		25 - 150

# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Lab Sample ID: 320-73544-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 489085**

**Client Sample ID: SB-19 (0-1.75)**  
**Prep Type: Total/NA**  
**Prep Batch: 488688**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
d9-N-EtFOSE-M	68		10 - 150

**Lab Sample ID: MB 320-488951/1-A**  
**Matrix: Water**  
**Analysis Batch: 489387**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 488951**

<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Perfluorobutanoic acid (PFBA)	ND		5.0	2.4	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	1.3	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.73	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.30	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.37	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.97	ng/L		05/14/21 07:12	05/15/21 13:15	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.98	ng/L		05/14/21 07:12	05/15/21 13:15	1
NEtFOSA	ND		2.0	0.87	ng/L		05/14/21 07:12	05/15/21 13:15	1
NMeFOSA	ND		2.0	0.43	ng/L		05/14/21 07:12	05/15/21 13:15	1
NMeFOSAA	ND		5.0	1.2	ng/L		05/14/21 07:12	05/15/21 13:15	1
NEtFOSAA	ND		5.0	1.3	ng/L		05/14/21 07:12	05/15/21 13:15	1
NMeFOSE	ND		4.0	1.4	ng/L		05/14/21 07:12	05/15/21 13:15	1
NEtFOSE	ND		2.0	0.85	ng/L		05/14/21 07:12	05/15/21 13:15	1
4:2 FTS	ND		2.0	0.24	ng/L		05/14/21 07:12	05/15/21 13:15	1
6:2 FTS	ND		5.0	2.5	ng/L		05/14/21 07:12	05/15/21 13:15	1
8:2 FTS	ND		2.0	0.46	ng/L		05/14/21 07:12	05/15/21 13:15	1
HFPO-DA (GenX)	ND		4.0	1.5	ng/L		05/14/21 07:12	05/15/21 13:15	1
9Cl-PF3ONS	ND		2.0	0.24	ng/L		05/14/21 07:12	05/15/21 13:15	1
11Cl-PF3OUdS	ND		2.0	0.32	ng/L		05/14/21 07:12	05/15/21 13:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/L		05/14/21 07:12	05/15/21 13:15	1

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	89		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C5 PFPeA	87		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C2 PFHxA	88		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C4 PFHpA	92		25 - 150	05/14/21 07:12	05/15/21 13:15	1

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# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Lab Sample ID: MB 320-488951/1-A**  
**Matrix: Water**  
**Analysis Batch: 489387**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 488951**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFOA	89		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C5 PFNA	92		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C2 PFDA	86		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C2 PFUnA	90		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C2 PFDoA	93		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C2 PFTeDA	86		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C3 PFBS	86		25 - 150	05/14/21 07:12	05/15/21 13:15	1
18O2 PFHxS	91		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C4 PFOS	88		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C8 FOSA	88		10 - 150	05/14/21 07:12	05/15/21 13:15	1
d3-NMeFOSAA	99		25 - 150	05/14/21 07:12	05/15/21 13:15	1
d5-NEtFOSAA	94		25 - 150	05/14/21 07:12	05/15/21 13:15	1
M2-4:2 FTS	93		25 - 150	05/14/21 07:12	05/15/21 13:15	1
d-N-MeFOSA-M	69		10 - 150	05/14/21 07:12	05/15/21 13:15	1
M2-6:2 FTS	104		25 - 150	05/14/21 07:12	05/15/21 13:15	1
d-N-EtFOSA-M	78		10 - 150	05/14/21 07:12	05/15/21 13:15	1
M2-8:2 FTS	83		25 - 150	05/14/21 07:12	05/15/21 13:15	1
13C3 HFPO-DA	82		25 - 150	05/14/21 07:12	05/15/21 13:15	1
d7-N-MeFOSE-M	89		10 - 150	05/14/21 07:12	05/15/21 13:15	1
13C2 10:2 FTS	100		25 - 150	05/14/21 07:12	05/15/21 13:15	1
d9-N-EtFOSE-M	88		10 - 150	05/14/21 07:12	05/15/21 13:15	1

**Lab Sample ID: LCS 320-488951/2-A**  
**Matrix: Water**  
**Analysis Batch: 489387**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 488951**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	40.2		ng/L		101	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	40.5		ng/L		101	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	38.4		ng/L		96	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	40.5		ng/L		101	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	35.9		ng/L		90	60 - 135
Perfluorononanoic acid (PFNA)	40.0	38.3		ng/L		96	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	39.8		ng/L		99	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	39.4		ng/L		98	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	39.1		ng/L		98	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	38.6		ng/L		96	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.4		ng/L		101	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	34.3		ng/L		97	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.4		ng/L		94	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.0		ng/L		102	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.2		ng/L		98	60 - 135

Eurofins TestAmerica, Sacramento



# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Lab Sample ID: LCS 320-488951/2-A**  
**Matrix: Water**  
**Analysis Batch: 489387**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 488951**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	37.1	34.9		ng/L		94	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	39.3		ng/L		102	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	34.6		ng/L		90	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	38.5		ng/L		99	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	39.6		ng/L		99	60 - 135
NEtFOSA	40.0	40.8		ng/L		102	60 - 135
NMeFOSA	40.0	41.9		ng/L		105	60 - 135
NMeFOSAA	40.0	37.4		ng/L		93	60 - 135
NEtFOSAA	40.0	42.5		ng/L		106	60 - 135
NMeFOSE	40.0	42.9		ng/L		107	60 - 135
NEtFOSE	40.0	40.9		ng/L		102	60 - 135
4:2 FTS	37.4	42.6		ng/L		114	60 - 135
6:2 FTS	37.9	38.1		ng/L		100	60 - 135
8:2 FTS	38.3	43.4		ng/L		113	60 - 135
HFPO-DA (GenX)	40.0	39.2		ng/L		98	60 - 135
9CI-PF3ONS	37.3	35.7		ng/L		96	60 - 135
11CI-PF3OUdS	37.7	33.7		ng/L		90	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	36.4		ng/L		97	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	89		25 - 150
13C5 PFPeA	86		25 - 150
13C2 PFHxA	88		25 - 150
13C4 PFHpA	98		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	95		25 - 150
13C2 PFDA	96		25 - 150
13C2 PFUnA	93		25 - 150
13C2 PFDoA	93		25 - 150
13C2 PFTeDA	82		25 - 150
13C3 PFBS	89		25 - 150
18O2 PFHxS	93		25 - 150
13C4 PFOS	97		25 - 150
13C8 FOSA	91		10 - 150
d3-NMeFOSAA	98		25 - 150
d5-NEtFOSAA	88		25 - 150
M2-4:2 FTS	93		25 - 150
d-N-MeFOSA-M	73		10 - 150
M2-6:2 FTS	102		25 - 150
d-N-EtFOSA-M	76		10 - 150
M2-8:2 FTS	90		25 - 150
13C3 HFPO-DA	87		25 - 150
d7-N-MeFOSE-M	85		10 - 150
13C2 10:2 FTS	95		25 - 150

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

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

**Lab Sample ID: LCS 320-488951/2-A**  
**Matrix: Water**  
**Analysis Batch: 489387**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 488951**

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d9-N-EtFOSE-M	87		10 - 150

**Lab Sample ID: LCSD 320-488951/3-A**  
**Matrix: Water**  
**Analysis Batch: 489387**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 488951**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	42.2		ng/L		105	60 - 135	5	30	
Perfluoropentanoic acid (PFPeA)	40.0	39.8		ng/L		99	60 - 135	2	30	
Perfluorohexanoic acid (PFHxA)	40.0	40.6		ng/L		101	60 - 135	5	30	
Perfluoroheptanoic acid (PFHpA)	40.0	41.0		ng/L		103	60 - 135	1	30	
Perfluorooctanoic acid (PFOA)	40.0	43.4		ng/L		108	60 - 135	19	30	
Perfluorononanoic acid (PFNA)	40.0	40.4		ng/L		101	60 - 135	5	30	
Perfluorodecanoic acid (PFDA)	40.0	42.7		ng/L		107	60 - 135	7	30	
Perfluoroundecanoic acid (PFUnA)	40.0	40.5		ng/L		101	60 - 135	3	30	
Perfluorododecanoic acid (PFDoA)	40.0	42.4		ng/L		106	60 - 135	8	30	
Perfluorotridecanoic acid (PFTrDA)	40.0	42.2		ng/L		106	60 - 135	9	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	44.3		ng/L		111	60 - 135	9	30	
Perfluorobutanesulfonic acid (PFBS)	35.4	36.9		ng/L		104	60 - 135	7	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	43.2		ng/L		115	60 - 135	20	30	
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.0		ng/L		99	60 - 135	3	30	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.5		ng/L		99	60 - 135	1	30	
Perfluorooctanesulfonic acid (PFOS)	37.1	35.9		ng/L		97	60 - 135	3	30	
Perfluorononanesulfonic acid (PFNS)	38.4	37.7		ng/L		98	60 - 135	4	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	36.0		ng/L		93	60 - 135	4	30	
Perfluorododecanesulfonic acid (PFDoS)	38.7	37.7		ng/L		97	60 - 135	2	30	
Perfluorooctanesulfonamide (FOSA)	40.0	42.2		ng/L		106	60 - 135	6	30	
NEtFOSA	40.0	42.9		ng/L		107	60 - 135	5	30	
NMeFOSA	40.0	38.3		ng/L		96	60 - 135	9	30	
NMeFOSAA	40.0	38.1		ng/L		95	60 - 135	2	30	
NEtFOSAA	40.0	43.0		ng/L		108	60 - 135	1	30	
NMeFOSE	40.0	42.0		ng/L		105	60 - 135	2	30	
NEtFOSE	40.0	43.9		ng/L		110	60 - 135	7	30	
4:2 FTS	37.4	44.1		ng/L		118	60 - 135	3	30	
6:2 FTS	37.9	36.0		ng/L		95	60 - 135	6	30	
8:2 FTS	38.3	44.7		ng/L		117	60 - 135	3	30	
HFPO-DA (GenX)	40.0	43.8		ng/L		110	60 - 135	11	30	
9CI-PF3ONS	37.3	35.3		ng/L		95	60 - 135	1	30	
11CI-PF3OUdS	37.7	37.5		ng/L		99	60 - 135	10	30	

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# QC Association Summary

Client: TRC Environmental Corporation  
 Project/Site: 437865 RockGen

Job ID: 320-73544-1

## LCMS

### Prep Batch: 488688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-73544-1	SB-17 (0-1.5)	Total/NA	Solid	SHAKE	
320-73544-2	SB-18 (0-1)	Total/NA	Solid	SHAKE	
320-73544-3	SB-19 (0-1.75)	Total/NA	Solid	SHAKE	
320-73544-4	SB-20 (0-2)	Total/NA	Solid	SHAKE	
320-73544-5	SB-21 (0-0.9)	Total/NA	Solid	SHAKE	
320-73544-6	SB-22 (0-2)	Total/NA	Solid	SHAKE	
320-73544-7	SB-23 (0-2)	Total/NA	Solid	SHAKE	
320-73544-9	SB-24 (0-2)	Total/NA	Solid	SHAKE	
320-73544-11	SB-25 (0-2)	Total/NA	Solid	SHAKE	
320-73544-13	SB-26 (0-2)	Total/NA	Solid	SHAKE	
320-73544-14	SS-04	Total/NA	Solid	SHAKE	
MB 320-488688/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-488688/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
320-73544-3 MS	SB-19 (0-1.75)	Total/NA	Solid	SHAKE	
320-73544-3 MSD	SB-19 (0-1.75)	Total/NA	Solid	SHAKE	

### Prep Batch: 488951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-73544-15	EB-06-202105	Total/NA	Water	3535	
320-73544-16	EB-07-202105	Total/NA	Water	3535	
MB 320-488951/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-488951/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-488951/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 489085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-73544-1	SB-17 (0-1.5)	Total/NA	Solid	537 (modified)	488688
320-73544-2	SB-18 (0-1)	Total/NA	Solid	537 (modified)	488688
320-73544-3	SB-19 (0-1.75)	Total/NA	Solid	537 (modified)	488688
320-73544-4	SB-20 (0-2)	Total/NA	Solid	537 (modified)	488688
320-73544-5	SB-21 (0-0.9)	Total/NA	Solid	537 (modified)	488688
320-73544-6	SB-22 (0-2)	Total/NA	Solid	537 (modified)	488688
320-73544-7	SB-23 (0-2)	Total/NA	Solid	537 (modified)	488688
320-73544-9	SB-24 (0-2)	Total/NA	Solid	537 (modified)	488688
320-73544-11	SB-25 (0-2)	Total/NA	Solid	537 (modified)	488688
320-73544-13	SB-26 (0-2)	Total/NA	Solid	537 (modified)	488688
320-73544-14	SS-04	Total/NA	Solid	537 (modified)	488688
MB 320-488688/1-A	Method Blank	Total/NA	Solid	537 (modified)	488688
LCS 320-488688/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	488688
320-73544-3 MS	SB-19 (0-1.75)	Total/NA	Solid	537 (modified)	488688
320-73544-3 MSD	SB-19 (0-1.75)	Total/NA	Solid	537 (modified)	488688

### Analysis Batch: 489387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-73544-15	EB-06-202105	Total/NA	Water	537 (modified)	488951
320-73544-16	EB-07-202105	Total/NA	Water	537 (modified)	488951
MB 320-488951/1-A	Method Blank	Total/NA	Water	537 (modified)	488951
LCS 320-488951/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	488951
LCSD 320-488951/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	488951

# QC Association Summary

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

## General Chemistry

### Analysis Batch: 488828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-73544-1	SB-17 (0-1.5)	Total/NA	Solid	D 2216	
320-73544-2	SB-18 (0-1)	Total/NA	Solid	D 2216	
320-73544-3	SB-19 (0-1.75)	Total/NA	Solid	D 2216	
320-73544-4	SB-20 (0-2)	Total/NA	Solid	D 2216	
320-73544-5	SB-21 (0-0.9)	Total/NA	Solid	D 2216	
320-73544-6	SB-22 (0-2)	Total/NA	Solid	D 2216	
320-73544-7	SB-23 (0-2)	Total/NA	Solid	D 2216	
320-73544-9	SB-24 (0-2)	Total/NA	Solid	D 2216	
320-73544-11	SB-25 (0-2)	Total/NA	Solid	D 2216	
320-73544-13	SB-26 (0-2)	Total/NA	Solid	D 2216	
320-73544-14	SS-04	Total/NA	Solid	D 2216	
320-73544-1 DU	SB-17 (0-1.5)	Total/NA	Solid	D 2216	

# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-17 (0-1.5)**

**Date Collected: 05/10/21 13:40**

**Date Received: 05/12/21 10:15**

**Lab Sample ID: 320-73544-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

**Client Sample ID: SB-17 (0-1.5)**

**Date Collected: 05/10/21 13:40**

**Date Received: 05/12/21 10:15**

**Lab Sample ID: 320-73544-1**

**Matrix: Solid**

**Percent Solids: 83.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.01 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 17:48	S1M	TAL SAC

**Client Sample ID: SB-18 (0-1)**

**Date Collected: 05/10/21 14:35**

**Date Received: 05/12/21 10:15**

**Lab Sample ID: 320-73544-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

**Client Sample ID: SB-18 (0-1)**

**Date Collected: 05/10/21 14:35**

**Date Received: 05/12/21 10:15**

**Lab Sample ID: 320-73544-2**

**Matrix: Solid**

**Percent Solids: 83.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.19 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 17:57	S1M	TAL SAC

**Client Sample ID: SB-19 (0-1.75)**

**Date Collected: 05/10/21 15:25**

**Date Received: 05/12/21 10:15**

**Lab Sample ID: 320-73544-3**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

**Client Sample ID: SB-19 (0-1.75)**

**Date Collected: 05/10/21 15:25**

**Date Received: 05/12/21 10:15**

**Lab Sample ID: 320-73544-3**

**Matrix: Solid**

**Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.44 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 18:06	S1M	TAL SAC

**Client Sample ID: SB-20 (0-2)**

**Date Collected: 05/10/21 16:15**

**Date Received: 05/12/21 10:15**

**Lab Sample ID: 320-73544-4**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

Eurofins TestAmerica, Sacramento



# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

## Client Sample ID: SB-20 (0-2)

Date Collected: 05/10/21 16:15

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-4

Matrix: Solid

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.15 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 18:34	S1M	TAL SAC

## Client Sample ID: SB-21 (0-0.9)

Date Collected: 05/10/21 16:55

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

## Client Sample ID: SB-21 (0-0.9)

Date Collected: 05/10/21 16:55

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-5

Matrix: Solid

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.01 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 18:43	S1M	TAL SAC

## Client Sample ID: SB-22 (0-2)

Date Collected: 05/10/21 17:45

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

## Client Sample ID: SB-22 (0-2)

Date Collected: 05/10/21 17:45

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-6

Matrix: Solid

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.63 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 18:52	S1M	TAL SAC

## Client Sample ID: SB-23 (0-2)

Date Collected: 05/10/21 18:30

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

## Client Sample ID: SB-23 (0-2)

Date Collected: 05/10/21 18:30

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-7

Matrix: Solid

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.28 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 19:29	S1M	TAL SAC

## Client Sample ID: SB-24 (0-2)

Date Collected: 05/10/21 19:00

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

## Client Sample ID: SB-24 (0-2)

Date Collected: 05/10/21 19:00

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-9

Matrix: Solid

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.31 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 19:38	S1M	TAL SAC

## Client Sample ID: SB-25 (0-2)

Date Collected: 05/11/21 08:30

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

## Client Sample ID: SB-25 (0-2)

Date Collected: 05/11/21 08:30

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-11

Matrix: Solid

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.51 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 19:47	S1M	TAL SAC

## Client Sample ID: SB-26 (0-2)

Date Collected: 05/11/21 10:25

Date Received: 05/12/21 10:15

## Lab Sample ID: 320-73544-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

# Lab Chronicle

Client: TRC Environmental Corporation  
Project/Site: 437865 RockGen

Job ID: 320-73544-1

**Client Sample ID: SB-26 (0-2)**

**Lab Sample ID: 320-73544-13**

**Date Collected: 05/11/21 10:25**

**Matrix: Solid**

**Date Received: 05/12/21 10:15**

**Percent Solids: 78.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.18 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 19:56	S1M	TAL SAC

**Client Sample ID: SS-04**

**Lab Sample ID: 320-73544-14**

**Date Collected: 05/11/21 10:45**

**Matrix: Solid**

**Date Received: 05/12/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			488828	05/13/21 14:39	TCS	TAL SAC

**Client Sample ID: SS-04**

**Lab Sample ID: 320-73544-14**

**Date Collected: 05/11/21 10:45**

**Matrix: Solid**

**Date Received: 05/12/21 10:15**

**Percent Solids: 74.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.05 g	10.00 mL	488688	05/13/21 11:42	OP	TAL SAC
Total/NA	Analysis	537 (modified)		1			489085	05/14/21 20:05	S1M	TAL SAC

**Client Sample ID: EB-06-202105**

**Lab Sample ID: 320-73544-15**

**Date Collected: 05/11/21 13:25**

**Matrix: Water**

**Date Received: 05/12/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			289 mL	10.00 mL	488951	05/14/21 07:12	HJA	TAL SAC
Total/NA	Analysis	537 (modified)		1			489387	05/15/21 13:43	RS1	TAL SAC

**Client Sample ID: EB-07-202105**

**Lab Sample ID: 320-73544-16**

**Date Collected: 05/11/21 13:15**

**Matrix: Water**

**Date Received: 05/12/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			266.1 mL	10.00 mL	488951	05/14/21 07:12	HJA	TAL SAC
Total/NA	Analysis	537 (modified)		1			489387	05/15/21 13:53	RS1	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: 320-73544-1

## 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
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
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	06-30-21
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	06-30-21
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-30-23
Texas	NELAP	T104704399-19-13	06-01-21
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
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: 320-73544-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

#### Protocol References:

ASTM = ASTM International

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: 320-73544-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-73544-1	SB-17 (0-1.5)	Solid	05/10/21 13:40	05/12/21 10:15	
320-73544-2	SB-18 (0-1)	Solid	05/10/21 14:35	05/12/21 10:15	
320-73544-3	SB-19 (0-1.75)	Solid	05/10/21 15:25	05/12/21 10:15	
320-73544-4	SB-20 (0-2)	Solid	05/10/21 16:15	05/12/21 10:15	
320-73544-5	SB-21 (0-0.9)	Solid	05/10/21 16:55	05/12/21 10:15	
320-73544-6	SB-22 (0-2)	Solid	05/10/21 17:45	05/12/21 10:15	
320-73544-7	SB-23 (0-2)	Solid	05/10/21 18:30	05/12/21 10:15	
320-73544-9	SB-24 (0-2)	Solid	05/10/21 19:00	05/12/21 10:15	
320-73544-11	SB-25 (0-2)	Solid	05/11/21 08:30	05/12/21 10:15	
320-73544-13	SB-26 (0-2)	Solid	05/11/21 10:25	05/12/21 10:15	
320-73544-14	SS-04	Solid	05/11/21 10:45	05/12/21 10:15	
320-73544-15	EB-06-202105	Water	05/11/21 13:25	05/12/21 10:15	
320-73544-16	EB-07-202105	Water	05/11/21 13:15	05/12/21 10:15	



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

Regulatory Program:  DW  NPDES  RCRA  Other:

Company Name: <b>TRC</b> Address: <b>708 Heartland Trail, Suite 300c</b> City/State/Zip: <b>Madison, WI 53717</b> Phone: <b>(414) 294-9247</b> Fax: <b>(262) 879-1220</b> Project Name: <b>RockGen SI</b> Site: <b>RockGen</b> P O #: <b>165540</b>		Client Contact Project Manager: <b>Jeff Ramtey</b> Tell/Email: <b>JRamtey@tracompanies.com</b> Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below <b>5 day</b> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Lab Contact: <b>D. Althucher</b> Date: <b>5/11/2021</b> Carrier: _____ COC No: _____ of <b>2</b> COCs Sampler: <b>Lydia Auner</b> For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:					
Sample Identification Sample Date      Sample Time      Sample Type (G=Comp, G=Grab)      Matrix      # of Cont.		Filtered Sample (Y/N)      Perform MS / MSD (Y/N)      PFA5 (W/33 LST)		Sample Specific Notes:					
SB-17 (0-1.5)		5/10/21 13:40 G S 1		N		X			
SB-18 (0-1)		5/10/21 14:35 G S 1		N		X			
SB-19 (0-1.75)		5/10/21 15:25 G S 1		N		X			
SB-20 (0-2)		5/10/21 16:15 G S 1		N		X			
SB-21 (0-0.9)		5/10/21 16:55 G S 1		N		X			
SB-22 (0-2)		5/10/21 17:45 G S 1		N		X			
SB-23 (0-2)		5/10/21 18:30 G S 1		N		X			
SB-23 (2-3.75)		5/10/21 18:40 G S 1		N		X		HOLD, didn't detect between 0-2 and 2-3.75	
SB-24 (0-2)		5/10/21 19:00 G S 1		N		X		HOLD	
SB-24 (2-4)		5/10/21 19:15 G S 1		N		X		HOLD	
SB-25 (0-2)		5/11/21 8:30 G S 1		N		X			
SB-25 (2-4)		5/11/21 8:55 G S 1		N		X			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Possible Hazard Identification: _____ Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
Special Instructions/QC Requirements & Comments: _____									
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Relinquished by: <b>Lydia Auner</b> Relinquished by: _____ Relinquished by: _____		Custody Seal No.: <b>1490723</b> Company: <b>TRC</b> Date/Time: <b>5/11/21 19:35</b>		Cooler Temp. (°C): Obs'd: <b>1.9</b> Cor'd: <b>1.9</b> Received by: _____ Company: <b>TRC</b> Date/Time: <b>5/11/21 10:15</b>		Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months		Therm ID No.: <b>602</b> Date/Time: _____ Date/Time: _____ Date/Time: _____	



TAL-8210

Address:

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Project Manager: <i>Jeff Ramsey</i>		Date: <i>5/11/2021</i>		COC No: <i>2</i> of <i>2</i> COCs	
Company Name: <i>TRC</i>		Tel/Email: <i>jeff.ramsey@trccompany.com</i>		Carrier:		Sampler: <i>Lydia Anwar</i>	
Address: <i>708 Hazelwood Trail, Suite 3000</i>		Analysis Turnaround Time		Lab Contact: <i>A. Hatcher</i>		For Lab Use Only:	
City/State/Zip: <i>Madison, WI 53717</i>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		Perform MS / MSD (Y / N)		Walk-in Client:	
Phone: <i>(44) 294-9247</i>		TAT if different from Below <i>5 day</i>		Filtered Sample (Y / N)		Lab Sampling:	
Fax: <i>(262) 879-1220</i>		<input type="checkbox"/> 2 weeks		PFAS (C133 C17)		Job / SDG No.:	
Project Name: <i>RockGen SI</i>		<input type="checkbox"/> 1 week		N			
Site: <i>RockGen</i>		<input type="checkbox"/> 2 days		X			
P O # <i>165540</i>		<input type="checkbox"/> 1 day		X			

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:
<i>SB-26 (0-2)</i>	<i>5/11/21</i>	<i>10:25</i>	<i>G</i>	<i>S</i>	<i>1</i>	<i>N</i>	<i>N</i>	
<i>SS-04</i>	<i>5/11/21</i>	<i>10:45</i>	<i>G</i>	<i>S</i>	<i>1</i>	<i>N</i>	<i>X</i>	
<i>EB-06-202105</i>	<i>5/11/21</i>	<i>13:25</i>	<i>G</i>	<i>W</i>	<i>2</i>	<i>N</i>	<i>X</i>	
<i>EB-07-202105</i>	<i>5/11/21</i>	<i>13:15</i>	<i>G</i>	<i>W</i>	<i>2</i>	<i>N</i>	<i>X</i>	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other  
 Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.: <i>1490723</i>	Cooler Temp. (°C): Obsd: <i>1.9</i> Corrd: <i>1.9</i>	Therm ID No.: <i>622</i>
Relinquished by: <i>Lydia Anwar</i>	Company: <i>TRC</i>	Received by: <i>[Signature]</i>	Company: <i>FRASC</i>
Relinquished by:	Company:	Received by:	Company:
Relinquished by:	Company:	Received in Laboratory by:	Company:



## Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-73544-1

**Login Number: 73544**

**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	1490727
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	