

## ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-83122-1  
Client Project/Site: 451482 RockGen

**For:**

TRC Environmental Corporation  
6737 W. Washington St., Suite 2100  
West Allis, Wisconsin 53214

Attn: Jeff Ramey



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*Authorized for release by:*  
12/28/2021 9:31:14 AM

David Alltucker, Project Manager I  
(916)374-4383  
[David.Alltucker@Eurofinset.com](mailto:David.Alltucker@Eurofinset.com)

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



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# Definitions/Glossary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-83122-1

## Qualifiers

### Metals

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

## Glossary

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

# Case Narrative

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-83122-1

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## Job ID: 320-83122-1

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### Laboratory: Eurofins TestAmerica, Sacramento

#### Narrative

#### Job Narrative 320-83122-1

#### Receipt

The sample was received on 12/17/2021 11:00 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

#### Metals

Method 3010A: The following sample for metals was received unpreserved and was preserved upon receipt to the laboratory: Frac Tank (320-83122-1). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

Method 6010B: The following sample was diluted due to the nature of the sample matrix: Frac Tank (320-83122-1). Elevated reporting limits (RLs) are provided.

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

#### LCMS

Method 537 (modified): The transition mass ratio was outside of the established ratio limit for NMeFOSA in (CCVL 320-553841/2) associated to this data set. This is indicated by the "R" flag in the raw data. As the flagged data is in control in the low level continuing calibration verification (CCVL), there is no adverse impact to the data. (CCVL 320-553841/2)

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

#### Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-553026.

Method 3535: The following samples were observed to be light brown prior to extraction: Frac Tank (320-83122-1). preparation batch 320-553026

Method 3535: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: Frac Tank (320-83122-1). A 10X dilution was performed. The sample contained non-settable solids and was cloudy. Client requested sample not be centrifuged to remove solids. The reporting limits (RLs) have been adjusted proportionately. preparation batch 320-553026

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

# Detection Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-83122-1

**Client Sample ID: Frac Tank**

**Lab Sample ID: 320-83122-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	27		20	8.5	ng/L	1		537 (modified)	Total/NA
Barium	0.61		0.13	0.063	mg/L	25		6010B	Total/NA
Chromium	0.18	J	0.20	0.030	mg/L	25		6010B	Total/NA
Lead	0.45		0.13	0.063	mg/L	25		6010B	Total/NA
Silver	0.024	J	0.13	0.021	mg/L	25		6010B	Total/NA
Mercury	0.00035		0.00020	0.00010	mg/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-83122-1

**Client Sample ID: Frac Tank**

**Lab Sample ID: 320-83122-1**

**Date Collected: 12/16/21 14:10**

**Matrix: Water**

**Date Received: 12/17/21 11:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<24		50	24	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluoropentanoic acid (PFPeA)	<4.9		20	4.9	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorohexanoic acid (PFHxA)	<5.8		20	5.8	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluoroheptanoic acid (PFHpA)	<2.5		20	2.5	ng/L		12/21/21 19:58	12/22/21 16:37	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>27</b>		20	8.5	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorononanoic acid (PFNA)	<2.7		20	2.7	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorodecanoic acid (PFDA)	<3.1		20	3.1	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluoroundecanoic acid (PFUnA)	<11		20	11	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorododecanoic acid (PFDoA)	<5.5		20	5.5	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorotridecanoic acid (PFTrDA)	<13		20	13	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorotetradecanoic acid (PFTeA)	<7.3		20	7.3	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		20	2.0	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluoropentanesulfonic acid (PFPeS)	<3.0		20	3.0	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorohexanesulfonic acid (PFHxS)	<5.7		20	5.7	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	<1.9		20	1.9	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorooctanesulfonic acid (PFOS)	<5.4		20	5.4	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorononanesulfonic acid (PFNS)	<3.7		20	3.7	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorodecanesulfonic acid (PFDS)	<3.2		20	3.2	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorododecanesulfonic acid (PFDoS)	<9.7		20	9.7	ng/L		12/21/21 19:58	12/22/21 16:37	1
Perfluorooctanesulfonamide (FOSA)	<9.8		20	9.8	ng/L		12/21/21 19:58	12/22/21 16:37	1
NEtFOSA	<8.7		20	8.7	ng/L		12/21/21 19:58	12/22/21 16:37	1
NMeFOSA	<4.3		20	4.3	ng/L		12/21/21 19:58	12/22/21 16:37	1
NMeFOSAA	<12		50	12	ng/L		12/21/21 19:58	12/22/21 16:37	1
NEtFOSAA	<13		50	13	ng/L		12/21/21 19:58	12/22/21 16:37	1
NMeFOSE	<14		40	14	ng/L		12/21/21 19:58	12/22/21 16:37	1
NEtFOSE	<8.5		20	8.5	ng/L		12/21/21 19:58	12/22/21 16:37	1
4:2 FTS	<2.4		20	2.4	ng/L		12/21/21 19:58	12/22/21 16:37	1
6:2 FTS	<25		50	25	ng/L		12/21/21 19:58	12/22/21 16:37	1
8:2 FTS	<4.6		20	4.6	ng/L		12/21/21 19:58	12/22/21 16:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<4.0		20	4.0	ng/L		12/21/21 19:58	12/22/21 16:37	1
HFPO-DA (GenX)	<15		40	15	ng/L		12/21/21 19:58	12/22/21 16:37	1
9Cl-PF3ONS	<2.4		20	2.4	ng/L		12/21/21 19:58	12/22/21 16:37	1
11Cl-PF3OUdS	<3.2		20	3.2	ng/L		12/21/21 19:58	12/22/21 16:37	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	102		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C5 PFPeA	107		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C2 PFHxA	97		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C4 PFHpA	114		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C4 PFOA	105		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C5 PFNA	84		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C2 PFDA	88		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C2 PFUnA	95		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C2 PFDoA	96		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C2 PFTeDA	79		25 - 150				12/21/21 19:58	12/22/21 16:37	1
13C3 PFBS	86		25 - 150				12/21/21 19:58	12/22/21 16:37	1
18O2 PFHxS	104		25 - 150				12/21/21 19:58	12/22/21 16:37	1

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-83122-1

**Client Sample ID: Frac Tank**

**Lab Sample ID: 320-83122-1**

Date Collected: 12/16/21 14:10

Matrix: Water

Date Received: 12/17/21 11:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	85		25 - 150	12/21/21 19:58	12/22/21 16:37	1
13C8 FOSA	62		10 - 150	12/21/21 19:58	12/22/21 16:37	1
d3-NMeFOSAA	68		25 - 150	12/21/21 19:58	12/22/21 16:37	1
d5-NEtFOSAA	78		25 - 150	12/21/21 19:58	12/22/21 16:37	1
d-N-MeFOSA-M	73		10 - 150	12/21/21 19:58	12/22/21 16:37	1
d-N-EtFOSA-M	73		10 - 150	12/21/21 19:58	12/22/21 16:37	1
d7-N-MeFOSE-M	89		10 - 150	12/21/21 19:58	12/22/21 16:37	1
d9-N-EtFOSE-M	88		10 - 150	12/21/21 19:58	12/22/21 16:37	1
M2-4:2 FTS	88		25 - 150	12/21/21 19:58	12/22/21 16:37	1
M2-6:2 FTS	75		25 - 150	12/21/21 19:58	12/22/21 16:37	1
M2-8:2 FTS	69		25 - 150	12/21/21 19:58	12/22/21 16:37	1
13C3 HFPO-DA	85		25 - 150	12/21/21 19:58	12/22/21 16:37	1
13C2 10:2 FTS	82		25 - 150	12/21/21 19:58	12/22/21 16:37	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.30		0.50	0.30	mg/L		12/20/21 16:15	12/26/21 00:52	25
<b>Barium</b>	<b>0.61</b>		0.13	0.063	mg/L		12/20/21 16:15	12/26/21 00:52	25
Cadmium	<0.013		0.050	0.013	mg/L		12/20/21 16:15	12/26/21 00:52	25
<b>Chromium</b>	<b>0.18</b>	<b>J</b>	0.20	0.030	mg/L		12/20/21 16:15	12/26/21 00:52	25
<b>Lead</b>	<b>0.45</b>		0.13	0.063	mg/L		12/20/21 16:15	12/26/21 00:52	25
Selenium	<0.33		0.50	0.33	mg/L		12/20/21 16:15	12/26/21 00:52	25
<b>Silver</b>	<b>0.024</b>	<b>J</b>	0.13	0.021	mg/L		12/20/21 16:15	12/26/21 00:52	25

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00035</b>		0.00020	0.00010	mg/L		12/20/21 10:50	12/20/21 16:25	1

# Isotope Dilution Summary

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-83122-1

## 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)
320-83122-1	Frac Tank	102	107	97	114	105	84	88	95
LCS 320-553026/2-A	Lab Control Sample	109	106	96	115	103	93	91	93
LCSD 320-553026/3-A	Lab Control Sample Dup	113	113	113	124	112	101	100	108
MB 320-553026/1-A	Method Blank	100	105	100	116	110	97	89	95

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-83122-1	Frac Tank	96	79	86	104	85	62	68	78
LCS 320-553026/2-A	Lab Control Sample	98	85	101	107	94	68	75	81
LCSD 320-553026/3-A	Lab Control Sample Dup	109	94	110	109	101	73	78	85
MB 320-553026/1-A	Method Blank	95	79	100	106	94	65	73	77

### 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)
320-83122-1	Frac Tank	73	73	89	88	88	75	69	85
LCS 320-553026/2-A	Lab Control Sample	73	73	99	100	87	78	72	88
LCSD 320-553026/3-A	Lab Control Sample Dup	78	77	108	105	102	79	78	95
MB 320-553026/1-A	Method Blank	77	73	104	97	99	74	74	81

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M102FTS (25-150)
320-83122-1	Frac Tank	82
LCS 320-553026/2-A	Lab Control Sample	86
LCSD 320-553026/3-A	Lab Control Sample Dup	96
MB 320-553026/1-A	Method Blank	96

#### 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  
 d3NMFOS = d3-NMeFOSAA  
 d5NEFOS = d5-NEtFOSAA  
 dMeFOSA = d-N-MeFOSA-M  
 dEtFOSA = d-N-EtFOSA-M  
 NMFM = d7-N-MeFOSE-M  
 NEFM = d9-N-EtFOSE-M  
 M242FTS = M2-4:2 FTS  
 M262FTS = M2-6:2 FTS



# Isotope Dilution Summary

Client: TRC Environmental Corporation

Project/Site: 451482 RockGen

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

M102FTS = 13C2 10:2 FTS

Job ID: 320-83122-1

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# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-83122-1

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

**Lab Sample ID: MB 320-553026/1-A**  
**Matrix: Water**  
**Analysis Batch: 552976**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 553026**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		12/21/21 19:58	12/22/21 15:55	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		12/21/21 19:58	12/22/21 15:55	1
NEtFOSA	<0.87		2.0	0.87	ng/L		12/21/21 19:58	12/22/21 15:55	1
NMeFOSA	<0.43		2.0	0.43	ng/L		12/21/21 19:58	12/22/21 15:55	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		12/21/21 19:58	12/22/21 15:55	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		12/21/21 19:58	12/22/21 15:55	1
NMeFOSE	<1.4		4.0	1.4	ng/L		12/21/21 19:58	12/22/21 15:55	1
NEtFOSE	<0.85		2.0	0.85	ng/L		12/21/21 19:58	12/22/21 15:55	1
4:2 FTS	<0.24		2.0	0.24	ng/L		12/21/21 19:58	12/22/21 15:55	1
6:2 FTS	<2.5		5.0	2.5	ng/L		12/21/21 19:58	12/22/21 15:55	1
8:2 FTS	<0.46		2.0	0.46	ng/L		12/21/21 19:58	12/22/21 15:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		12/21/21 19:58	12/22/21 15:55	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		12/21/21 19:58	12/22/21 15:55	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		12/21/21 19:58	12/22/21 15:55	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		12/21/21 19:58	12/22/21 15:55	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	100		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C5 PFPeA	105		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C2 PFHxA	100		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C4 PFHpA	116		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C4 PFOA	110		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C5 PFNA	97		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C2 PFDA	89		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C2 PFUnA	95		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C2 PFDoA	95		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C2 PFTeDA	79		25 - 150	12/21/21 19:58	12/22/21 15:55	1

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-83122-1

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

**Lab Sample ID: MB 320-553026/1-A**  
**Matrix: Water**  
**Analysis Batch: 552976**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 553026**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	100		25 - 150	12/21/21 19:58	12/22/21 15:55	1
18O2 PFHxS	106		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C4 PFOS	94		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C8 FOSA	65		10 - 150	12/21/21 19:58	12/22/21 15:55	1
d3-NMeFOSAA	73		25 - 150	12/21/21 19:58	12/22/21 15:55	1
d5-NEtFOSAA	77		25 - 150	12/21/21 19:58	12/22/21 15:55	1
d-N-MeFOSA-M	77		10 - 150	12/21/21 19:58	12/22/21 15:55	1
d-N-EtFOSA-M	73		10 - 150	12/21/21 19:58	12/22/21 15:55	1
d7-N-MeFOSE-M	104		10 - 150	12/21/21 19:58	12/22/21 15:55	1
d9-N-EtFOSE-M	97		10 - 150	12/21/21 19:58	12/22/21 15:55	1
M2-4:2 FTS	99		25 - 150	12/21/21 19:58	12/22/21 15:55	1
M2-6:2 FTS	74		25 - 150	12/21/21 19:58	12/22/21 15:55	1
M2-8:2 FTS	74		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C3 HFPO-DA	81		25 - 150	12/21/21 19:58	12/22/21 15:55	1
13C2 10:2 FTS	96		25 - 150	12/21/21 19:58	12/22/21 15:55	1

**Lab Sample ID: LCS 320-553026/2-A**  
**Matrix: Water**  
**Analysis Batch: 552976**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 553026**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoropentanoic acid (PFPeA)	40.0	37.7		ng/L		94	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	42.1		ng/L		105	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	37.2		ng/L		93	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	38.4		ng/L		96	60 - 135
Perfluorononanoic acid (PFNA)	40.0	38.7		ng/L		97	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	41.1		ng/L		103	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.1		ng/L		105	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	37.9		ng/L		95	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	35.7		ng/L		89	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	37.6		ng/L		94	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	32.8		ng/L		93	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	39.7		ng/L		106	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.7		ng/L		104	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	43.5		ng/L		114	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	36.5		ng/L		98	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	39.3		ng/L		102	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.6		ng/L		108	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	31.5		ng/L		81	60 - 135

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-83122-1

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

**Lab Sample ID: LCS 320-553026/2-A**  
**Matrix: Water**  
**Analysis Batch: 552976**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 553026**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonamide (FOSA)	40.0	46.1		ng/L		115	60 - 135
NEtFOSA	40.0	42.5		ng/L		106	60 - 135
NMeFOSA	40.0	46.7		ng/L		117	60 - 135
NMeFOSAA	40.0	36.6		ng/L		92	60 - 135
NEtFOSAA	40.0	37.3		ng/L		93	60 - 135
NMeFOSE	40.0	41.6		ng/L		104	60 - 135
NEtFOSE	40.0	37.8		ng/L		95	60 - 135
4:2 FTS	37.4	35.1		ng/L		94	60 - 135
6:2 FTS	37.9	35.1		ng/L		92	60 - 135
8:2 FTS	38.3	35.8		ng/L		93	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	45.7		ng/L		121	60 - 135
HFPO-DA (GenX)	40.0	38.9		ng/L		97	60 - 135
9Cl-PF3ONS	37.3	33.9		ng/L		91	60 - 135
11Cl-PF3OUdS	37.7	36.8		ng/L		98	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	109		25 - 150
13C5 PFPeA	106		25 - 150
13C2 PFHxA	96		25 - 150
13C4 PFHpA	115		25 - 150
13C4 PFOA	103		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	91		25 - 150
13C2 PFUnA	93		25 - 150
13C2 PFDoA	98		25 - 150
13C2 PFTeDA	85		25 - 150
13C3 PFBS	101		25 - 150
18O2 PFHxS	107		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	68		10 - 150
d3-NMeFOSAA	75		25 - 150
d5-NEtFOSAA	81		25 - 150
d-N-MeFOSA-M	73		10 - 150
d-N-EtFOSA-M	73		10 - 150
d7-N-MeFOSE-M	99		10 - 150
d9-N-EtFOSE-M	100		10 - 150
M2-4:2 FTS	87		25 - 150
M2-6:2 FTS	78		25 - 150
M2-8:2 FTS	72		25 - 150
13C3 HFPO-DA	88		25 - 150
13C2 10:2 FTS	86		25 - 150

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-83122-1

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

**Lab Sample ID: LCSD 320-553026/3-A**

**Matrix: Water**

**Analysis Batch: 552976**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 553026**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
Perfluorobutanoic acid (PFBA)	40.0	43.8		ng/L		109	60 - 135	2	30
Perfluoropentanoic acid (PFPeA)	40.0	38.0		ng/L		95	60 - 135	1	30
Perfluorohexanoic acid (PFHxA)	40.0	36.2		ng/L		91	60 - 135	15	30
Perfluoroheptanoic acid (PFHpA)	40.0	38.0		ng/L		95	60 - 135	2	30
Perfluorooctanoic acid (PFOA)	40.0	39.0		ng/L		98	60 - 135	2	30
Perfluorononanoic acid (PFNA)	40.0	39.6		ng/L		99	60 - 135	2	30
Perfluorodecanoic acid (PFDA)	40.0	40.4		ng/L		101	60 - 135	2	30
Perfluoroundecanoic acid (PFUnA)	40.0	40.2		ng/L		101	60 - 135	5	30
Perfluorododecanoic acid (PFDoA)	40.0	39.5		ng/L		99	60 - 135	4	30
Perfluorotridecanoic acid (PFTTrDA)	40.0	33.3		ng/L		83	60 - 135	7	30
Perfluorotetradecanoic acid (PFTeA)	40.0	36.7		ng/L		92	60 - 135	2	30
Perfluorobutanesulfonic acid (PFBS)	35.4	32.1		ng/L		91	60 - 135	2	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.5		ng/L		97	60 - 135	8	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	39.0		ng/L		107	60 - 135	3	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.4		ng/L		101	60 - 135	12	30
Perfluorooctanesulfonic acid (PFOS)	37.1	36.6		ng/L		99	60 - 135	0	30
Perfluorononanesulfonic acid (PFNS)	38.4	36.0		ng/L		94	60 - 135	9	30
Perfluorodecanesulfonic acid (PFDS)	38.6	41.5		ng/L		108	60 - 135	0	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	30.0		ng/L		77	60 - 135	5	30
Perfluorooctanesulfonamide (FOSA)	40.0	45.2		ng/L		113	60 - 135	2	30
NEtFOSA	40.0	42.7		ng/L		107	60 - 135	0	30
NMeFOSA	40.0	47.2		ng/L		118	60 - 135	1	30
NMeFOSAA	40.0	37.6		ng/L		94	60 - 135	3	30
NEtFOSAA	40.0	35.8		ng/L		90	60 - 135	4	30
NMeFOSE	40.0	39.9		ng/L		100	60 - 135	4	30
NEtFOSE	40.0	41.2		ng/L		103	60 - 135	8	30
4:2 FTS	37.4	36.1		ng/L		97	60 - 135	3	30
6:2 FTS	37.9	36.9		ng/L		97	60 - 135	5	30
8:2 FTS	38.3	35.3		ng/L		92	60 - 135	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	43.9		ng/L		116	60 - 135	4	30
HFPO-DA (GenX)	40.0	34.6		ng/L		86	60 - 135	12	30
9CI-PF3ONS	37.3	34.3		ng/L		92	60 - 135	1	30
11CI-PF3OUdS	37.7	35.6		ng/L		95	60 - 135	3	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	113		25 - 150
13C5 PFPeA	113		25 - 150
13C2 PFHxA	113		25 - 150

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-83122-1

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

Lab Sample ID: LCSD 320-553026/3-A  
Matrix: Water  
Analysis Batch: 552976

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 553026

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C4 PFHpA	124		25 - 150
13C4 PFOA	112		25 - 150
13C5 PFNA	101		25 - 150
13C2 PFDA	100		25 - 150
13C2 PFUnA	108		25 - 150
13C2 PFDoA	109		25 - 150
13C2 PFTeDA	94		25 - 150
13C3 PFBS	110		25 - 150
18O2 PFHxS	109		25 - 150
13C4 PFOS	101		25 - 150
13C8 FOSA	73		10 - 150
d3-NMeFOSAA	78		25 - 150
d5-NEtFOSAA	85		25 - 150
d-N-MeFOSA-M	78		10 - 150
d-N-EtFOSA-M	77		10 - 150
d7-N-MeFOSE-M	108		10 - 150
d9-N-EtFOSE-M	105		10 - 150
M2-4:2 FTS	102		25 - 150
M2-6:2 FTS	79		25 - 150
M2-8:2 FTS	78		25 - 150
13C3 HFPO-DA	95		25 - 150
13C2 10:2 FTS	96		25 - 150

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-552638/1-A  
Matrix: Water  
Analysis Batch: 553368

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 552638

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.012		0.020	0.012	mg/L		12/20/21 16:15	12/23/21 00:00	1
Barium	<0.0025		0.0050	0.0025	mg/L		12/20/21 16:15	12/23/21 00:00	1
Cadmium	<0.00050		0.0020	0.00050	mg/L		12/20/21 16:15	12/23/21 00:00	1
Chromium	<0.0012		0.0080	0.0012	mg/L		12/20/21 16:15	12/23/21 00:00	1
Lead	<0.0025		0.0050	0.0025	mg/L		12/20/21 16:15	12/23/21 00:00	1
Selenium	<0.013		0.020	0.013	mg/L		12/20/21 16:15	12/23/21 00:00	1
Silver	<0.00084		0.0050	0.00084	mg/L		12/20/21 16:15	12/23/21 00:00	1

Lab Sample ID: LCS 320-552638/2-A  
Matrix: Water  
Analysis Batch: 553368

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 552638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.520		mg/L		104	80 - 120
Cadmium	0.250	0.257		mg/L		103	80 - 120
Chromium	0.250	0.259		mg/L		104	80 - 120
Lead	0.250	0.254		mg/L		102	80 - 120
Selenium	0.500	0.467		mg/L		93	80 - 120

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-83122-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 320-552638/2-A**  
**Matrix: Water**  
**Analysis Batch: 553368**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 552638**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0505	0.0519		mg/L		103	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 320-552457/11-A**  
**Matrix: Water**  
**Analysis Batch: 552622**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 552457**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		12/20/21 10:50	12/20/21 15:34	1

**Lab Sample ID: LCS 320-552457/12-A**  
**Matrix: Water**  
**Analysis Batch: 552622**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 552457**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00100	0.000993		mg/L		99	82 - 113

**Lab Sample ID: LCSD 320-552457/13-A**  
**Matrix: Water**  
**Analysis Batch: 552622**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 552457**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.00100	0.000950		mg/L		95	82 - 113	4	17

# QC Association Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-83122-1

## LCMS

### Analysis Batch: 552976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83122-1	Frac Tank	Total/NA	Water	537 (modified)	553026
MB 320-553026/1-A	Method Blank	Total/NA	Water	537 (modified)	553026
LCS 320-553026/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	553026
LCSD 320-553026/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	553026

### Prep Batch: 553026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83122-1	Frac Tank	Total/NA	Water	3535	
MB 320-553026/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-553026/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-553026/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

## Metals

### Prep Batch: 552457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83122-1	Frac Tank	Total/NA	Water	7470A	
MB 320-552457/11-A	Method Blank	Total/NA	Water	7470A	
LCS 320-552457/12-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 320-552457/13-A	Lab Control Sample Dup	Total/NA	Water	7470A	

### Analysis Batch: 552622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83122-1	Frac Tank	Total/NA	Water	7470A	552457
MB 320-552457/11-A	Method Blank	Total/NA	Water	7470A	552457
LCS 320-552457/12-A	Lab Control Sample	Total/NA	Water	7470A	552457
LCSD 320-552457/13-A	Lab Control Sample Dup	Total/NA	Water	7470A	552457

### Prep Batch: 552638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83122-1	Frac Tank	Total/NA	Water	3010A	
MB 320-552638/1-A	Method Blank	Total/NA	Water	3010A	
LCS 320-552638/2-A	Lab Control Sample	Total/NA	Water	3010A	

### Analysis Batch: 553368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-552638/1-A	Method Blank	Total/NA	Water	6010B	552638
LCS 320-552638/2-A	Lab Control Sample	Total/NA	Water	6010B	552638

### Analysis Batch: 553896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83122-1	Frac Tank	Total/NA	Water	6010B	552638



# Lab Chronicle

Client: TRC Environmental Corporation  
 Project/Site: 451482 RockGen

Job ID: 320-83122-1

**Client Sample ID: Frac Tank**

**Lab Sample ID: 320-83122-1**

**Date Collected: 12/16/21 14:10**

**Matrix: Water**

**Date Received: 12/17/21 11:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			25.0 mL	10.0 mL	553026	12/21/21 19:58	AP	TAL SAC
Total/NA	Analysis	537 (modified)		1			552976	12/22/21 16:37	AEC	TAL SAC
Total/NA	Prep	3010A			50 mL	50 mL	552638	12/20/21 16:15	JP	TAL SAC
Total/NA	Analysis	6010B		25			553896	12/26/21 00:52	JMD	TAL SAC
Total/NA	Prep	7470A			30 mL	30 mL	552457	12/20/21 10:50	DPM	TAL SAC
Total/NA	Analysis	7470A		1			552622	12/20/21 16:25	DPM	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: 451482 RockGen

Job ID: 320-83122-1

## 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	08-11-22
Arkansas DEQ	State	88-0691	06-17-22
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-22
Florida	NELAP	E87570	06-30-22
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-18-22
Louisiana	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22
Nevada	State	CA00044	08-31-22
New Hampshire	NELAP	2997	04-18-22
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-29-22
Texas	NELAP	T104704399-19-13	05-31-22
US Fish & Wildlife	US Federal Programs	58448	07-31-22
USDA	US Federal Programs	P330-18-00239	07-31-24
Utah	NELAP	CA000442021-12	03-01-22
Virginia	NELAP	460278	03-14-22
Washington	State	C581	05-05-22
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-22
Wyoming	State Program	8TMS-L	01-28-19 *

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

# Method Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-83122-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010B	Metals (ICP)	SW846	TAL SAC
7470A	Mercury (CVAA)	SW846	TAL SAC
3010A	Preparation, Total Metals	SW846	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
7470A	Preparation, Mercury	SW846	TAL SAC

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

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



# Sample Summary

Client: TRC Environmental Corporation  
Project/Site: 451482 RockGen

Job ID: 320-83122-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-83122-1	Frac Tank	Water	12/16/21 14:10	12/17/21 11:00

1

2

3

4

5

6

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14

15



# Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-83122-1

**Login Number: 83122**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator: Oropeza, Salvador**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1657885
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

