

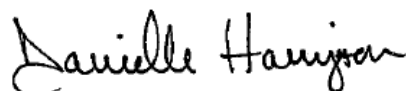
ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-151727-1
Client Project/Site: 909j Water Sampling

For:
Evergreen Natural Resources LLC
27000 Hwy 12
Trinidad, Colorado 81082

Attn: Stacey Wiseman



Authorized for release by:
8/24/2021 12:46:58 PM

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

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

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Definitions/Glossary

Client: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Qualifiers

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Job ID: 280-151727-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: Evergreen Natural Resources LLC

Project: 909j Water Sampling

Report Number: 280-151727-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Receipt

The sample was received on 8/11/2021. 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 time was 3.3°C

GC/MS Volatiles, 8260B

The method 8260B MS/MSD could not be performed, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

No other anomalies were observed.

GC Volatiles, 8015C

The method 8015C MS/MSD could not be performed, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

No other anomalies were observed.

GC Semivolatiles, 8015C

The method 8015C MS/MSD could not be performed, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

The following samples 257333 (280-151727-1) were orange in color.

No other anomalies were observed.

Total Metals, MCAWW 200.7, MCAWW 200.8

Due to analytes present above the linear calibration curve or matrix interferences, sample 257333 was analyzed at a dilution for Method 200.7. The reporting limits have been adjusted relative to the dilution required.

The interference check standard solution (ICSA) associated with the following samples showed results for strontium (24.6 ppb) at a level greater than 2 times the reporting limit (10 ppb). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution.

The interference check standard solution (ICSA) associated with the following samples showed results for strontium (25 ppb) at a level

Case Narrative

Client: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Job ID: 280-151727-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

greater than 2 times the reporting limit (10 ppb). It is believed that the solution contains trace impurities of this element and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution.

The Method 200.7 MS/MSD was performed on sample from another client and/or lot and was within control limits.

The Method 200.8 MS/MSD was performed on sample from another client and/or lot and was within control limits.

No other anomalies were observed.

General Chemistry, Various Methods

Due to analytes present above the linear calibration curve or matrix interferences, sample 257333 was analyzed at a dilution for various analyses. The reporting limits have been adjusted relative to the dilution required.

Please note that the recoveries, for the Fluoride laboratory generated MS/MSD, are within QC limits; however, these are estimated values as the concentrations exceeded the calibration range. Method precision and accuracy has been verified by the acceptable LCS/LCSD analysis data; therefore, corrective action is deemed unnecessary.

All other MS/MSDs were performed on samples from other clients and/or jobs and were in control.

All Sample Duplicates were performed on samples from another client and/or lot and were in control.

No other anomalies were observed.

Detection Summary

Client: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Client Sample ID: 257333

Lab Sample ID: 280-151727-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	630		100		ug/L	1		200.7 Rev 4.4	Total/NA
Barium	15000		10		ug/L	1		200.7 Rev 4.4	Total/NA
Calcium	100		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Iron	55000		100		ug/L	1		200.7 Rev 4.4	Total/NA
Potassium	20000		3000		ug/L	1		200.7 Rev 4.4	Total/NA
Magnesium	27		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	740		10		ug/L	1		200.7 Rev 4.4	Total/NA
Sodium	3800		50		mg/L	10		200.7 Rev 4.4	Total/NA
Strontium	26000	^6+	100		ug/L	10		200.7 Rev 4.4	Total/NA
Bromide	44		12		mg/L	50		300.0	Total/NA
Chloride	6400		51		mg/L	50		300.0	Total/NA
Phosphorus, Total	0.10		0.050		mg/L	1		365.1	Total/NA
Total Alkalinity	430		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	430		10		mg/L	1		SM 2320B	Total/NA
Specific Conductance	17000		1.0		umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	7000		1000		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	32		4.0		mg/L	1		SM 2540D	Total/NA
pH	7.1	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Field pH	6.93				SU	1		Field Sampling	Total/NA
Field Conductivity	1724				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.8				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL DEN
200.7 Rev 4.4	Metals (ICP)	EPA	TAL DEN
200.8	Metals (ICP/MS)	EPA	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL DEN
365.1	Phosphorus, Total	EPA	TAL DEN
SM 2320B	Alkalinity	SM	TAL DEN
SM 2510B	Conductivity, Specific Conductance	SM	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL DEN
SM 4500 H+ B	pH	SM	TAL DEN
Field Sampling	Field Sampling	EPA	TAL DEN
200.7	Preparation, Total Metals	EPA	TAL DEN
200.8	Preparation, Total Metals	EPA	TAL DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
365.2/365.3/365	Phosphorus, Total	MCAWW	TAL DEN
5030B	Purge and Trap	SW846	TAL DEN
5030C	Purge and Trap	SW846	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-151727-1	257333	Water	08/10/21 13:40	08/11/21 12:42

1

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Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Client Sample ID: 257333

Lab Sample ID: 280-151727-1

Date Collected: 08/10/21 13:40

Matrix: Water

Date Received: 08/11/21 12:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			08/13/21 00:54	1
Ethylbenzene	ND		0.50		ug/L			08/13/21 00:54	1
Toluene	ND		0.50		ug/L			08/13/21 00:54	1
m-Xylene & p-Xylene	ND		0.50		ug/L			08/13/21 00:54	1
o-Xylene	ND		0.50		ug/L			08/13/21 00:54	1
Xylenes, Total	ND		0.50		ug/L			08/13/21 00:54	1
Naphthalene	ND		1.0		ug/L			08/13/21 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 127		08/13/21 00:54	1
Toluene-d8 (Surr)	99		80 - 125		08/13/21 00:54	1
4-Bromofluorobenzene (Surr)	100		78 - 120		08/13/21 00:54	1
Dibromofluoromethane (Surr)	98		77 - 120		08/13/21 00:54	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		25		ug/L			08/13/21 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		82 - 110		08/13/21 12:23	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO [C10-C36]	ND		0.47		mg/L		08/12/21 15:44	08/16/21 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 115	08/12/21 15:44	08/16/21 15:25	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	630		100		ug/L		08/17/21 15:05	08/18/21 11:27	1
Barium	15000		10		ug/L		08/17/21 15:05	08/18/21 11:27	1
Calcium	100		0.20		mg/L		08/17/21 15:05	08/18/21 11:27	1
Iron	55000		100		ug/L		08/17/21 15:05	08/18/21 11:27	1
Potassium	20000		3000		ug/L		08/17/21 15:05	08/18/21 11:27	1
Magnesium	27		0.20		mg/L		08/17/21 15:05	08/18/21 11:27	1
Manganese	740		10		ug/L		08/17/21 15:05	08/18/21 11:27	1
Sodium	3800		50		mg/L		08/17/21 15:05	08/18/21 20:46	10
Strontium	26000	^6+	100		ug/L		08/17/21 15:05	08/18/21 20:46	10

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0		ug/L		08/18/21 07:05	08/18/21 20:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	44		12		mg/L			08/11/21 23:38	50
Nitrate as N	ND		0.10		mg/L			08/11/21 23:08	1
Chloride	6400		51		mg/L			08/11/21 23:38	50
Nitrite as N	ND		0.10		mg/L			08/11/21 23:08	1
Fluoride	ND		10		mg/L			08/11/21 23:38	50

Eurofins TestAmerica, Denver

Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Client Sample ID: 257333

Lab Sample ID: 280-151727-1

Date Collected: 08/10/21 13:40

Matrix: Water

Date Received: 08/11/21 12:42

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			08/11/21 23:08	1
Phosphorus, Total	0.10		0.050		mg/L		08/23/21 07:17	08/23/21 14:35	1
Total Alkalinity	430		10		mg/L			08/13/21 19:55	1
Bicarbonate Alkalinity as CaCO3	430		10		mg/L			08/13/21 19:55	1
Carbonate Alkalinity as CaCO3	ND		10		mg/L			08/13/21 19:55	1
Total Dissolved Solids	7000		1000		mg/L			08/14/21 13:53	1
Total Suspended Solids	32		4.0		mg/L			08/12/21 09:18	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	17000		1.0		umhos/cm			08/12/21 11:45	1
pH	7.1	HF	0.1		SU			08/13/21 19:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.93				SU			08/10/21 13:40	1
Field Conductivity	1724				umhos/cm			08/10/21 13:40	1
Field Temperature	25.8				Degrees C			08/10/21 13:40	1

Surrogate Summary

Client: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (70-127)	TOL (80-125)	BFB (78-120)	DBFM (77-120)
280-151727-1	257333	102	99	100	98
LCS 280-546323/4	Lab Control Sample	100	99	99	101
LCSD 280-546323/5	Lab Control Sample Dup	100	99	98	102
MB 280-546323/9	Method Blank	101	100	100	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (82-110)
280-151727-1	257333	102
LCS 280-546391/3	Lab Control Sample	107
LCSD 280-546391/4	Lab Control Sample Dup	107
MB 280-546391/5	Method Blank	102

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (50-115)
280-151727-1	257333	75
LCS 280-546234/2-A	Lab Control Sample	92
LCSD 280-546234/3-A	Lab Control Sample Dup	94
MB 280-546234/1-A	Method Blank	73

Surrogate Legend

OTPH = o-Terphenyl

Lab Chronicle

Client: Evergreen Natural Resources LLC
Project/Site: 909j Water Sampling

Job ID: 280-151727-1

Client Sample ID: 257333

Lab Sample ID: 280-151727-1

Date Collected: 08/10/21 13:40

Matrix: Water

Date Received: 08/11/21 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	546323	08/13/21 00:54	RJS	TAL DEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	546391	08/13/21 12:23	SKL	TAL DEN
Total/NA	Prep	3510C			1053.2 mL	1 mL	546234	08/12/21 15:44	TGH	TAL DEN
Total/NA	Analysis	8015C		1			546563	08/16/21 15:25	JSM	TAL DEN
Total/NA	Prep	200.7			50 mL	50 mL	546322	08/17/21 15:05	CEH	TAL DEN
Total/NA	Analysis	200.7 Rev 4.4		1			546900	08/18/21 11:27	LMT	TAL DEN
Total/NA	Prep	200.7			50 mL	50 mL	546322	08/17/21 15:05	CEH	TAL DEN
Total/NA	Analysis	200.7 Rev 4.4		10			547037	08/18/21 20:46	LMT	TAL DEN
Total/NA	Prep	200.8			50 mL	50 mL	546497	08/18/21 07:05	MAB	TAL DEN
Total/NA	Analysis	200.8		1			546974	08/18/21 20:23	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	546094	08/11/21 23:08	SPG	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	546095	08/11/21 23:08	SPG	TAL DEN
Total/NA	Analysis	300.0		50	5 mL	5 mL	546095	08/11/21 23:38	SPG	TAL DEN
Total/NA	Prep	365.2/365.3/365			50 mL	50 mL	547335	08/23/21 07:17	MRU	TAL DEN
Total/NA	Analysis	365.1		1			547423	08/23/21 14:35	SPG	TAL DEN
Total/NA	Analysis	SM 2320B		1			546594	08/13/21 19:55	ECC	TAL DEN
Total/NA	Analysis	SM 2510B		1			546248	08/12/21 11:45	ECC	TAL DEN
Total/NA	Analysis	SM 2540C		1	1 mL	100 mL	546485	08/14/21 13:53	LRB	TAL DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	546222	08/12/21 09:18	LRB	TAL DEN
Total/NA	Analysis	SM 4500 H+ B		1			546596	08/13/21 19:44	ECC	TAL DEN
Total/NA	Analysis	Field Sampling		1			546537	08/10/21 13:40	C1A	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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