

Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 5/18/2020

Job Number: 17065-0017

Work Order: P005059

Project Name/Location: Campbell Com 1E

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is placed over a light gray rectangular background.

Date: 5/26/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: Campbell Com 1E
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
05/26/20 13:58

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Braden Head	P005059-01A	Aqueous	05/18/20	05/18/20	Poly 500mL
	P005059-01B	Aqueous	05/18/20	05/18/20	Poly 500mL

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Braden Head
P005059-01 (Water)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Wet Chem/Gravimetric

Total Dissolved Solids	8400	25.0	mg/L	1	2021019	05/20/20	05/22/20	SM2540C	
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Dissolved Metals by 6010

Sodium Absorption Ratio	424		N/A	1	2021028	05/22/20	05/22/20	[CALC]	
Calcium	2.25	1.00	mg/L	1	2021017	05/20/20	05/21/20	EPA 6010C	
Iron	ND	2.00	mg/L	1	2021017	05/20/20	05/21/20	EPA 6010C	
Magnesium	ND	1.00	mg/L	1	2021017	05/20/20	05/21/20	EPA 6010C	
Potassium	1470	100	mg/L	100	2021017	05/20/20	05/21/20	EPA 6010C	
Sodium	2310	200	mg/L	100	2021017	05/20/20	05/21/20	EPA 6010C	

Anions by 300.0/9056A

Fluoride	ND	5.00	mg/L	20	2021014	05/20/20	05/20/20	EPA 300.0/9056A	
Chloride	1040	40.0	mg/L	20	2021014	05/20/20	05/20/20	EPA 300.0/9056A	
Nitrite-N	ND	5.00	mg/L	20	2021014	05/20/20 07:51	05/20/20 10:44	EPA 300.0/9056A	
Nitrate-N	ND	5.00	mg/L	20	2021014	05/20/20 07:51	05/20/20 10:44	EPA 300.0/9056A	
o-Phosphate-P	ND	5.00	mg/L	20	2021014	05/20/20 07:51	05/20/20 10:44	EPA 300.0/9056A	
Sulfate	338	40.0	mg/L	20	2021014	05/20/20	05/20/20	EPA 300.0/9056A	

Wet Chemistry

pH @25°C	12.8		pH Units	1	2021011	05/19/20 10:58	05/19/20 12:19	9040C/4500 H+B	H5
Specific Conductance (@ 25 C)	25400	10.0	uS/cm	1	2021025	05/21/20	05/21/20	9050A/2510 B	
Total Alkalinity (as CaCO3 at pH 4.5)	4980	10.0	mg/L	1	2021027	05/21/20	05/21/20	SM2320B	

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Wet Chem/Gravimetric - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2021019 - Wet Chemistry Preparation
Blank (2021019-BLK1)

Prepared: 05/20/20 1 Analyzed: 05/22/20 1

Total Dissolved Solids ND 10.0 mg/L

LCS (2021019-BS1)

Prepared: 05/20/20 1 Analyzed: 05/22/20 1

Total Dissolved Solids 114 10.0 mg/L 100 114 55-134

Duplicate (2021019-DUP1)
Source: P005059-01

Prepared: 05/20/20 1 Analyzed: 05/22/20 1

Total Dissolved Solids 8270 25.0 mg/L 8400 1.53 5

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511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

Dissolved Metals by 6010 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2021017 - Metals Water Hotblock Digestion EPA 3010A/200.2

Blank (2021017-BLK1)

Prepared: 05/20/20 1 Analyzed: 05/21/20 1

Calcium	ND	1.00	mg/L
Iron	ND	2.00	"
Magnesium	ND	1.00	"
Potassium	ND	1.00	"
Sodium	ND	2.00	"

LCS (2021017-BS1)

Prepared: 05/20/20 1 Analyzed: 05/21/20 1

Calcium	51.7	1.00	mg/L	50.0	103	80-120
Iron	104	2.00	"	100	104	80-120
Magnesium	50.5	1.00	"	50.0	101	80-120
Potassium	5.15	1.00	"	5.00	103	80-120
Sodium	18.6	2.00	"	20.0	93.0	80-120

Matrix Spike (2021017-MS1)

Source: P005059-01

Prepared: 05/20/20 1 Analyzed: 05/21/20 1

Calcium	56.4	1.00	mg/L	50.0	2.25	108	75-125	
Iron	111	2.00	"	100	ND	111	75-125	
Magnesium	50.1	1.00	"	50.0	ND	100	75-125	
Potassium	1500	100	"	5.00	1470	760	75-125	M2
Sodium	2390	200	"	20.0	2310	400	75-125	M2

Matrix Spike Dup (2021017-MSD1)

Source: P005059-01

Prepared: 05/20/20 1 Analyzed: 05/21/20 1

Calcium	56.5	1.00	mg/L	50.0	2.25	109	75-125	0.177	20	
Iron	111	2.00	"	100	ND	111	75-125	0.450	20	
Magnesium	50.7	1.00	"	50.0	ND	101	75-125	1.17	20	
Potassium	1460	100	"	5.00	1470	NR	75-125	2.77	20	M2
Sodium	2340	200	"	20.0	2310	135	75-125	2.24	20	M2

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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2021014 - Anion Extraction EPA 300.0/9056A

Blank (2021014-BLK1)

Prepared: 05/20/20 0 Analyzed: 05/20/20 1

Fluoride	ND	0.250	mg/L
Chloride	ND	2.00	"
Nitrite-N	ND	0.250	"
Nitrate-N	ND	0.250	"
o-Phosphate-P	ND	0.250	"
Sulfate	ND	2.00	"

LCS (2021014-BS1)

Prepared: 05/20/20 0 Analyzed: 05/20/20 1

Fluoride	2.59	0.250	mg/L	2.50	104	90-110
Chloride	24.7	2.00	"	25.0	98.8	90-110
Nitrite-N	2.56	0.250	"	2.50	102	90-110
Nitrate-N	2.60	0.250	"	2.50	104	90-110
o-Phosphate-P	12.7	0.250	"	12.5	102	90-110
Sulfate	24.6	2.00	"	25.0	98.4	90-110

LCS Dup (2021014-BSD1)

Prepared: 05/20/20 0 Analyzed: 05/20/20 1

Fluoride	2.64	0.250	mg/L	2.50	106	90-110	2.07	20
Chloride	25.2	2.00	"	25.0	101	90-110	1.97	20
Nitrite-N	2.60	0.250	"	2.50	104	90-110	1.82	20
Nitrate-N	2.65	0.250	"	2.50	106	90-110	1.94	20
o-Phosphate-P	13.0	0.250	"	12.5	104	90-110	1.86	20
Sulfate	25.1	2.00	"	25.0	100	90-110	1.98	20

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Wet Chemistry - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2021011 - Wet Chemistry Preparation

LCS (2021011-BS1)

Prepared & Analyzed: 05/19/20 1

pH	8.03	pH Units	8.00	100	98.75-101.25
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Duplicate (2021011-DUP1)

Source: P005059-01

Prepared & Analyzed: 05/19/20 1

pH	12.8	pH Units	12.8	0.00	20
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Reported:
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Wet Chemistry - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2021025 - Wet Chemistry Preparation
Blank (2021025-BLK1)

Prepared & Analyzed: 05/21/20 1

Specific Conductance (@ 25 C) ND 10.0 uS/cm

LCS (2021025-BS1)

Prepared & Analyzed: 05/21/20 1

Specific Conductance (@ 25 C) 1440 10.0 uS/cm 1410 102 98-102

Duplicate (2021025-DUP1)

Source: P005059-01

Prepared & Analyzed: 05/21/20 1

Specific Conductance (@ 25 C) 25100 10.0 uS/cm 25400 1.19 20

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Reported:
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Wet Chemistry - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2021027 - Wet Chemistry Preparation
LCS (2021027-BS1)

Prepared & Analyzed: 05/21/20 1

Total Alkalinity (as CaCO ₃ at pH 4.5)	248	10.0	mg/L	250	99.2	70-130
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Duplicate (2021027-DUP1)

Source: P005068-01

Prepared & Analyzed: 05/21/20 1

Total Alkalinity (as CaCO ₃ at pH 4.5)	236	10.0	mg/L	238	0.844	20
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QC Summary Report
Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Notes and Definitions

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- H5 pH is specified to be performed in the field within 15 minutes of sampling. The sample was performed as quickly as possible.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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