



API # 30-045-09482

Analytical Report

Report Summary

Client: San Juan Resources
Chain Of Custody Number:
Samples Received: 4/28/2017 1:59:00PM
Job Number: 05217-0006
Work Order: P705002
Project Name/Location: Scott #1

MAY 12 2017

OIL CONS. DIV DIST. 3

Report Reviewed By:

Date: 5/8/17

Walter Hinchman, Laboratory Director

Date: 5/8/17

Tim Cain, Quality Assurance Officer

OIL CONS. DIV DIST. 3

MAY 12 2017

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



San Juan Resources
1499 Blake St., #10C
Denver CO, 80202

Project Name: Scott #1
Project Number: 05217-0006
Project Manager: Vern Walsh

Reported:
08-May-17 15:57

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bradenhead Water	P705002-01A	Aqueous	04/28/17	04/28/17	Poly 500mL
	P705002-01B	Aqueous	04/28/17	04/28/17	VOA Vial, 40mL, H2SO4

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Project Number: 05217-0006
Project Manager: Vern Walsh

Reported:
08-May-17 15:57

**Bradenhead Water
P705002-01 (Water)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wet Chem/Gravimetric									
Total Dissolved Solids	19600	10.0	mg/L	1	1718001	05/05/17	05/08/17	SM2540C	
Cation/Anion Analysis									
pH @25°C	8.70		pH Units	1	1718021	05/03/17 08:04	05/03/17 10:51	9040C/4500 H	H2
Electrical Conductivity	19800		umbos/cm	1	1718020	05/03/17	05/03/17	9050A/2510	
Sodium Absorption Ratio	29.7		N/A	1	1718029	05/04/17	05/04/17	[CALC]	
Total Alkalinity as CaCO3	640	10.0	mg/L	1	1718005	05/01/17	05/01/17	Hach Method 8203	
Bicarbonate as CaCO3	640	10.0	mg/L	1	1718005	05/01/17	05/01/17	Hach Method 8203	
Carbonate as CaCO3	ND	10.0	mg/L	1	1718005	05/01/17	05/01/17	Hach Method 8203	
Hydroxide as CaCO3	ND	10.0	mg/L	1	1718005	05/01/17	05/01/17	Hach Method 8203	
Fluoride	ND	25.0	mg/L	100	1718026	05/03/17	05/03/17	EPA 300.0	
Chloride	1420	200	mg/L	100	1718026	05/03/17	05/03/17	EPA 300.0	
Nitrite-N	ND	25.0	mg/L	100	1718026	05/03/17 13:33	05/03/17 18:50	EPA 300.0	A-01
Nitrate-N	ND	25.0	mg/L	100	1718026	05/03/17 13:33	05/03/17 18:50	EPA 300.0	A-01
o-Phosphate-P	ND	25.0	mg/L	100	1718026	05/03/17 13:33	05/03/17 18:50	EPA 300.0	A-01
Sulfate	11300	200	mg/L	100	1718026	05/03/17	05/03/17	EPA 300.0	
Iron	ND	0.50	mg/L	1	1718016	05/03/17	05/04/17	EPA 6010C	
Calcium	319	0.50	mg/L	1	1718016	05/03/17	05/04/17	EPA 6010C	
Magnesium	134	0.20	mg/L	1	1718016	05/03/17	05/04/17	EPA 6010C	
Potassium	16.4	0.50	mg/L	1	1718016	05/03/17	05/04/17	EPA 6010C	
Sodium	2510	2.00	mg/L	1	1718016	05/03/17	05/04/17	EPA 6010C	

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San Juan Resources	Project Name:	Scott #1	Reported: 08-May-17 15:57
1499 Blake St., #10C	Project Number:	05217-0006	
Denver CO, 80202	Project Manager:	Vern Walsh	

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 1718001 - No Prep Wet Chem

Blank (1718001-BLK1)

Prepared: 30-Apr-17 Analyzed: 01-May-17

Total Dissolved Solids ND 10.0 mg/L

LCS (1718001-BS1)

Prepared: 30-Apr-17 Analyzed: 01-May-17

Total Dissolved Solids 99.0 10.0 mg/L 100 99.0 50-150

Duplicate (1718001-DUP1)

Source: P704019-01

Prepared: 30-Apr-17 Analyzed: 01-May-17

Total Dissolved Solids 3990 10.0 mg/L 3990 0.00 5

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San Juan Resources	Project Name:	Scott #1	Reported: 08-May-17 15:57
1499 Blake St., #10C	Project Number:	05217-0006	
Denver CO, 80202	Project Manager:	Vern Walsh	

Cation/Anion Analysis - 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 1718005 - No Prep Wet Chem

Duplicate (1718005-DUP1)	Source: P704019-01			Prepared & Analyzed: 01-May-17					
Total Alkalinity as CaCO ₃	170	10.0	mg/L		180			5.71	30
Bicarbonate as CaCO ₃	ND	10.0	"		ND				30
Carbonate as CaCO ₃	100	10.0	"		120			18.2	30
Hydroxide as CaCO ₃	70.0	10.0	"		60.0			15.4	30

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1499 Blake St., #10C	Project Number:	05217-0006	08-May-17 15:57
Denver CO, 80202	Project Manager:	Vern Walsh	

Cation/Anion Analysis - 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 1718016 - Metal Water Digestion EPA 3015A

Blank (1718016-BLK1)

Prepared: 03-May-17 Analyzed: 04-May-17

Iron	ND	0.50	mg/L
Calcium	ND	0.50	"
Magnesium	ND	0.20	"
Potassium	ND	0.50	"
Sodium	ND	2.00	"

LCS (1718016-BS1)

Prepared: 03-May-17 Analyzed: 04-May-17

Iron	5.29	0.50	mg/L	5.00	106	80-120
Calcium	25.1	0.50	"	25.0	100	80-120
Magnesium	24.5	0.20	"	25.0	97.9	80-120
Potassium	4.77	0.50	"	5.00	95.4	80-120
Sodium	24.4	2.00	"	25.0	97.7	80-120

Matrix Spike (1718016-MS1)

Source: P704024-02

Prepared: 03-May-17 Analyzed: 04-May-17

Iron	5.17	0.50	mg/L	5.00	ND	103	75-125
Calcium	26.8	0.50	"	25.0	2.63	96.8	75-125
Magnesium	24.2	0.20	"	25.0	0.26	95.6	75-125
Potassium	5.24	0.50	"	5.00	ND	105	75-125
Sodium	34.8	2.00	"	25.0	6.68	112	75-125

Matrix Spike Dup (1718016-MSD1)

Source: P704024-02

Prepared: 03-May-17 Analyzed: 04-May-17

Iron	5.40	0.50	mg/L	5.00	ND	108	75-125	4.37	20
Calcium	28.3	0.50	"	25.0	2.63	103	75-125	5.19	20
Magnesium	25.3	0.20	"	25.0	0.26	100	75-125	4.76	20
Potassium	5.54	0.50	"	5.00	ND	111	75-125	5.55	20
Sodium	36.3	2.00	"	25.0	6.68	119	75-125	4.42	20

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Project Name: Scott #1
Project Number: 05217-0006
Project Manager: Vern Walsh

Reported:
08-May-17 15:57

Cation/Anion Analysis - 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 1718020 - No Prep Wet Chem

Duplicate (1718020-DUP1)

Source: P705002-01

Prepared & Analyzed: 03-May-17

Electrical Conductivity	19800		umhos/cm		19800			0.00	20	
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1499 Blake St., #10C	Project Number:	05217-0006	08-May-17 15:57
Denver CO, 80202	Project Manager:	Vern Walsh	

Cation/Anion Analysis - 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 1718021 - No Prep Wet Chem

LCS (1718021-BS1)

Prepared & Analyzed: 03-May-17

pH	7.96		pH Units	8.00		99.8	98.75-101.25			
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Duplicate (1718021-DUP1)

Source: P705002-01

Prepared & Analyzed: 03-May-17

pH	8.70		pH Units	8.70				0.00	20	
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San Juan Resources 1499 Blake St., #10C Denver CO, 80202	Project Name: Scott #1 Project Number: 05217-0006 Project Manager: Vern Walsh	Reported: 08-May-17 15:57
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Cation/Anion Analysis - 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 1718026 - Anion Extraction EPA 300.0

Blank (1718026-BLK1)

Prepared & Analyzed: 03-May-17

Fluoride	ND	0.25	mg/L
Chloride	ND	2.00	"
Nitrite-N	ND	0.25	"
Nitrate-N	ND	0.25	"
o-Phosphate-P	ND	0.25	"
Sulfate	ND	2.00	"

LCS (1718026-BS1)

Prepared & Analyzed: 03-May-17

Fluoride	2.61	0.25	mg/L	2.50	104	90-110
Chloride	25.7	2.00	"	25.0	103	90-110
Nitrite-N	2.63	0.25	"	2.50	105	90-110
Nitrate-N	2.49	0.25	"	2.50	99.4	90-110
o-Phosphate-P	12.0	0.25	"	12.5	95.9	90-110
Sulfate	25.6	2.00	"	25.0	102	90-110

Matrix Spike (1718026-MS1)

Source: P705006-03

Prepared & Analyzed: 03-May-17

Fluoride	6.80	0.50	mg/L	5.00	1.64	103	80-120
Chloride	53.7	4.00	"	50.0	ND	107	80-120
Nitrite-N	5.06	0.50	"	5.00	ND	101	80-120
Nitrate-N	4.81	0.50	"	5.00	ND	96.1	80-120
o-Phosphate-P	23.3	0.50	"	25.0	ND	93.2	80-120
Sulfate	196	4.00	"	50.0	145	102	80-120

Matrix Spike Dup (1718026-MSD1)

Source: P705006-03

Prepared & Analyzed: 03-May-17

Fluoride	6.92	0.50	mg/L	5.00	1.64	106	80-120	1.69	20
Chloride	54.7	4.00	"	50.0	ND	109	80-120	1.93	20
Nitrite-N	5.21	0.50	"	5.00	ND	104	80-120	2.84	20
Nitrate-N	4.93	0.50	"	5.00	ND	98.6	80-120	2.55	20
o-Phosphate-P	23.8	0.50	"	25.0	ND	95.0	80-120	1.90	20
Sulfate	197	4.00	"	50.0	145	104	80-120	0.539	20

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08-May-17 15:57

Notes and Definitions

H2 Sample was analyzed after regulatory hold-time exceeded for target analyte.
A-01 Analytes analyzed from H2SO4 preserved sample.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Client: San Juan Resources
 Project: Bradenhead water
 Sampler: Jimmie McKinney 320-5332
 Phone: 327-4892
 Email(s): verna@walsheing.net
 Project Manager:

RUSH?

☐ 1d
☐ 3d

Lab Use Only		Analysis and Method								Lab Only	
Lab WO# P 705002		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS	Cation/Anion	Lab Number	Correct Cont/Prsr(s) Y/N
Job Number 05217-0006											

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS	Cation/Anion	Lab Number	Correct Cont/Prsr(s) Y/N
Bradenhead water	4/28/17	11:10A	Aq	1-500ml/Poly/Cool								✓	1	Y

Relinquished by: (Signature) <i>Jim McKinney</i>	Date 4/28/17	Time 1:57 P	Received by: (Signature) <i>June 30 28th</i>	Date 04-28-17	Time 13:59	Lab Use Only **Received on Ice Y / N T1 4.0 T2 T3 AVG Temp °C 4.0					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing Info:



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