

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 16, 2022

Jeremy Pike  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501

RE: Dawson A1

Work Order #2204355

Enclosed are the results of analyses for samples received by Summit Scientific on 04/22/22 10:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury  
President



Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1-2	2204355-01	Soil	04/21/22 10:25	04/22/22 10:40
SS2-2	2204355-02	Soil	04/21/22 10:27	04/22/22 10:40
SS3-1	2204355-03	Soil	04/21/22 10:29	04/22/22 10:40
SS4-1	2204355-04	Soil	04/21/22 10:31	04/22/22 10:40
SS5-1	2204355-05	Soil	04/21/22 10:33	04/22/22 10:40
SS6-1	2204355-06	Soil	04/21/22 10:35	04/22/22 10:40
SS7-1	2204355-07	Soil	04/21/22 10:37	04/22/22 10:40
SS8-1	2204355-08	Soil	04/21/22 10:39	04/22/22 10:40
SS9-4	2204355-09	Soil	04/21/22 10:41	04/22/22 10:40
BG1-1	2204355-10	Soil	04/21/22 14:05	04/22/22 10:40
BG2-1	2204355-11	Soil	04/21/22 14:10	04/22/22 10:40

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

101-2

# Summit Scientific

S<sub>2</sub>

2204355.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 (f)

Client: Entrada Consulting Group	Project Manager: Jeremy Pike
Address: 1843 Sunlight Drive	E-Mail: <a href="mailto:jpike@entradainc.com">jpike@entradainc.com</a>
City/State/Zip: Longmont, Colorado, 80504	
Phone: 435-630-4748	Project Name: Dawson A1
Sampler Name: Jeremy Pike	Project Number: 021-187 (Bill directly to Western Operating)

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1	BTEX	TPH (C6-C36)	EC	SAR	pH	Boron
1	SS1-2	4/21/22	1025	3			X			X			X						
2	SS2-2		1027										X						
3	SS3-1		1029										X						
4	SS4-1		1031										X						
5	SS5-1		1033										X						
6	SS6-1		1035										X						
7	SS7-1		1037										X						
8	SS8-1		1039										X						
9	SS9-4		1041	3									X						
10	B61-1		1425	1															

HOLD

Relinquished by:	Date/Time: 4/22/22 1040	Received by:	Date/Time:	<b>Turn Around Time (Check)</b> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: <u>1K</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time: 4.22.22 1040	

# Summit Scientific

S<sub>2</sub>

2204355.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 (f)

Client: Entrada Consulting Group

Project Manager: Jeremy Pike

Address: 1843 Sunlight Drive

E-Mail: [jpik@entradainc.com](mailto:jpik@entradainc.com)

City/State/Zip: Longmont, Colorado, 80504

Phone: 435-630-4748

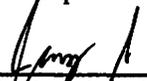
Project Name: Dawson A1

Sampler Name: Jeremy Pike

Project Number: 021-187 (Bill directly to Western Operating)

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1	BTEX	TPH (C6-C36)	EC	SAR	pH	Boron	
1	B62-1	4/21/22	1410	X			X			X										
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

HOLD

Relinquished by: 	Date/Time: 4/22/22 1049	Received by:	Date/Time:	<b>Turn Around Time (Check)</b> Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: 18 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by: 	Date/Time: 4.22.22 1040	

S<sub>2</sub>

2204355

Sample Receipt Checklist

S2 Work Order#

Client: Entrada

Client Project ID: Dawson A1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: \_\_\_\_\_

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ? <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	an u
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)</sup> ? Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

AT  
Custodian Printed Name

4.22.27  
Date/Time



Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS1-2**  
**2204355-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0316	79.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	91.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS1-2**  
**2204355-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0552	04/26/22	04/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0154</b>	0.0100	mg/L	1	BFE0020	05/02/22	05/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS1-2**  
**2204355-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.56	0.210	mg/kg dry	1	BFD0614	04/27/22	05/07/22	EPA 6020B
Barium	55.3	0.420	"	"	"	"	"	"
Cadmium	ND	0.210	"	"	"	"	"	"
Copper	2.72	0.420	"	"	"	"	"	"
Lead	3.25	0.210	"	"	"	"	"	"
Nickel	3.80	0.420	"	"	"	"	"	"
Selenium	0.385	0.273	"	"	"	"	"	"
Silver	ND	0.0210	"	"	"	"	"	"
Zinc	12.9	0.420	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0118	05/06/22	05/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3.70	0.0525	mg/L dry	1	BFD0648	04/29/22	05/07/22	EPA 6020B	
Magnesium	0.864	0.0525	"	"	"	"	"	"	
Sodium	0.326	0.0525	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0397	0.00100	units	1	BFE0148	05/08/22	05/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
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**Reported:**  
 05/16/22 08:21

**SS1-2**  
**2204355-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BFD0633	04/28/22	04/29/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.103	0.0100	mmhos/cm	1	BFD0654	04/29/22	05/03/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BFD0653	04/29/22	05/03/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS2-2**  
**2204355-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0310	77.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	92.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

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05/16/22 08:21

**SS2-2**  
**2204355-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0552	04/26/22	04/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0944</b>	0.0100	mg/L	1	BFE0020	05/02/22	05/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS2-2**  
**2204355-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.21	0.213	mg/kg dry	1	BFD0614	04/27/22	05/07/22	EPA 6020B
Barium	85.9	0.426	"	"	"	"	"	"
Cadmium	ND	0.213	"	"	"	"	"	"
Copper	5.21	0.426	"	"	"	"	"	"
Lead	4.88	0.213	"	"	"	"	"	"
Nickel	5.65	0.426	"	"	"	"	"	"
Selenium	0.533	0.277	"	"	"	"	"	"
Silver	0.0249	0.0213	"	"	"	"	"	"
Zinc	19.8	0.426	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0118	05/06/22	05/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3.24	0.0533	mg/L dry	1	BFD0648	04/29/22	05/07/22	EPA 6020B	
Magnesium	1.60	0.0533	"	"	"	"	"	"	
Sodium	1.58	0.0533	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.179	0.00100	units	1	BFE0148	05/08/22	05/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS2-2**  
**2204355-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>93.9</b>	%	1	BFD0633	04/28/22	04/29/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.275</b>	0.0100	mmhos/cm	1	BFD0654	04/29/22	05/03/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.72</b>		pH Units	1	BFD0653	04/29/22	05/03/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS3-1**  
**2204355-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0313	78.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	92.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS3-1**  
**2204355-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0552	04/26/22	04/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0382</b>	0.0100	mg/L	1	BFE0020	05/02/22	05/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS3-1**  
**2204355-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.06	0.209	mg/kg dry	1	BFD0614	04/27/22	05/07/22	EPA 6020B	
Barium	45.8	0.418	"	"	"	"	"	"	
Cadmium	ND	0.209	"	"	"	"	"	"	
Copper	1.91	0.418	"	"	"	"	"	"	
Lead	2.35	0.209	"	"	"	"	"	"	
Nickel	2.70	0.418	"	"	"	"	"	"	
Selenium	0.302	0.272	"	"	"	"	"	"	
Silver	ND	0.0209	"	"	"	"	"	"	
Zinc	9.10	0.418	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0118	05/06/22	05/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.41	0.0523	mg/L dry	1	BFD0648	04/29/22	05/07/22	EPA 6020B	
Magnesium	0.767	0.0523	"	"	"	"	"	"	
Sodium	0.347	0.0523	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0401	0.00100	units	1	BFE0148	05/08/22	05/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS3-1**  
**2204355-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BFD0633	04/28/22	04/29/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.106	0.0100	mmhos/cm	1	BFD0654	04/29/22	05/03/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BFD0653	04/29/22	05/03/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS4-1**  
**2204355-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0316	79.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.6	92.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS4-1**  
**2204355-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0552	04/26/22	04/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0215	64.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0318</b>	0.0100	mg/L	1	BFE0020	05/02/22	05/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS4-1**  
**2204355-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.15	0.218	mg/kg dry	1	BFD0614	04/27/22	05/07/22	EPA 6020B
Barium	89.3	0.435	"	"	"	"	"	"
Cadmium	ND	0.218	"	"	"	"	"	"
Copper	4.05	0.435	"	"	"	"	"	"
Lead	4.02	0.218	"	"	"	"	"	"
Nickel	5.01	0.435	"	"	"	"	"	"
Selenium	0.450	0.283	"	"	"	"	"	"
Silver	ND	0.0218	"	"	"	"	"	"
Zinc	16.9	0.435	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0118	05/06/22	05/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7.66	0.0544	mg/L dry	1	BFD0648	04/29/22	05/07/22	EPA 6020B	
Magnesium	1.15	0.0544	"	"	"	"	"	"	
Sodium	0.744	0.0544	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0663	0.00100	units	1	BFE0148	05/08/22	05/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS4-1**  
**2204355-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BFD0633	04/28/22	04/29/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.168	0.0100	mmhos/cm	1	BFD0654	04/29/22	05/03/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BFD0653	04/29/22	05/03/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS5-1**  
**2204355-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0320	80.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>60</b>	50	mg/kg	1	BFD0557	04/26/22	04/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.7	94.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS5-1**  
**2204355-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0552	04/26/22	04/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0202	60.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0632</b>	0.0100	mg/L	1	BFE0020	05/02/22	05/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS5-1**  
**2204355-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.69	0.207	mg/kg dry	1	BFD0614	04/27/22	05/07/22	EPA 6020B	
Barium	87.1	0.414	"	"	"	"	"	"	
Cadmium	ND	0.207	"	"	"	"	"	"	
Copper	9.87	0.414	"	"	"	"	"	"	
Lead	10.9	0.207	"	"	"	"	"	"	
Nickel	6.15	0.414	"	"	"	"	"	"	
Selenium	0.589	0.269	"	"	"	"	"	"	
Silver	0.0266	0.0207	"	"	"	"	"	"	
Zinc	39.5	0.414	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0118	05/06/22	05/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2.16	0.0517	mg/L dry	1	BFD0648	04/29/22	05/07/22	EPA 6020B	
Magnesium	0.527	0.0517	"	"	"	"	"	"	
Sodium	0.373	0.0517	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0590	0.00100	units	1	BFE0148	05/08/22	05/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS5-1**  
**2204355-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>96.7</b>	%	1	BFD0633	04/28/22	04/29/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.223</b>	0.0100	mmhos/cm	1	BFD0654	04/29/22	05/03/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.21</b>		pH Units	1	BFD0653	04/29/22	05/03/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS6-1**  
**2204355-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0318	79.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.8	94.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS6-1**  
**2204355-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0552	04/26/22	04/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0204	61.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	62.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0532</b>	0.0100	mg/L	1	BFE0020	05/02/22	05/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS6-1**  
**2204355-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.74	0.208	mg/kg dry	1	BFD0614	04/27/22	05/07/22	EPA 6020B	
Barium	82.7	0.416	"	"	"	"	"	"	
Cadmium	ND	0.208	"	"	"	"	"	"	
Copper	7.68	0.416	"	"	"	"	"	"	
Lead	6.38	0.208	"	"	"	"	"	"	
Nickel	6.02	0.416	"	"	"	"	"	"	
Selenium	0.560	0.270	"	"	"	"	"	"	
Silver	0.0243	0.0208	"	"	"	"	"	"	
Zinc	35.9	0.416	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0118	05/06/22	05/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.78	0.0520	mg/L dry	1	BFD0648	04/29/22	05/07/22	EPA 6020B	
Magnesium	0.680	0.0520	"	"	"	"	"	"	
Sodium	1.05	0.0520	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.119	0.00100	units	1	BFE0148	05/08/22	05/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS6-1**  
**2204355-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>96.1</b>	%	1	BFD0633	04/28/22	04/29/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.633</b>	0.0100	mmhos/cm	1	BFD0654	04/29/22	05/03/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.00</b>		pH Units	1	BFD0653	04/29/22	05/03/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS7-1**  
**2204355-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0321	80.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	96.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS7-1**  
**2204355-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0552	04/26/22	04/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0177	53.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0175	52.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.178</b>	0.0100	mg/L	1	BFE0020	05/02/22	05/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS7-1**  
**2204355-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.88	0.209	mg/kg dry	1	BFD0614	04/27/22	05/07/22	EPA 6020B	
Barium	54.3	0.417	"	"	"	"	"	"	
Cadmium	ND	0.209	"	"	"	"	"	"	
Copper	2.95	0.417	"	"	"	"	"	"	
Lead	3.09	0.209	"	"	"	"	"	"	
Nickel	3.94	0.417	"	"	"	"	"	"	
Selenium	0.403	0.271	"	"	"	"	"	"	
Silver	0.0225	0.0209	"	"	"	"	"	"	
Zinc	13.5	0.417	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0118	05/06/22	05/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5.16	0.0522	mg/L dry	1	BFD0648	04/29/22	05/07/22	EPA 6020B	
Magnesium	1.22	0.0522	"	"	"	"	"	"	
Sodium	3.48	0.0522	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.358	0.00100	units	1	BFE0148	05/08/22	05/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
 240 Mesa Avenue  
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Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS7-1**  
**2204355-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>95.8</b>	%	1	BFD0633	04/28/22	04/29/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.713</b>	0.0100	mmhos/cm	1	BFD0654	04/29/22	05/03/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.83</b>		pH Units	1	BFD0653	04/29/22	05/03/22	EPA 9045D	

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS8-1**  
**2204355-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0314	78.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.3	98.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS8-1**  
**2204355-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0552	04/26/22	04/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0188	56.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0342</b>	0.0100	mg/L	1	BFE0020	05/02/22	05/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS8-1**  
**2204355-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.76	0.208	mg/kg dry	1	BFD0614	04/27/22	05/07/22	EPA 6020B	
Barium	84.4	0.416	"	"	"	"	"	"	
Cadmium	ND	0.208	"	"	"	"	"	"	
Copper	4.11	0.416	"	"	"	"	"	"	
Lead	4.45	0.208	"	"	"	"	"	"	
Nickel	5.35	0.416	"	"	"	"	"	"	
Selenium	0.513	0.270	"	"	"	"	"	"	
Silver	0.0215	0.0208	"	"	"	"	"	"	
Zinc	18.3	0.416	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0118	05/06/22	05/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2.13	0.0520	mg/L dry	1	BFD0648	04/29/22	05/07/22	EPA 6020B	
Magnesium	0.640	0.0520	"	"	"	"	"	"	
Sodium	2.83	0.0520	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.437	0.00100	units	1	BFE0148	05/08/22	05/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS8-1**  
**2204355-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>96.1</b>	%	1	BFD0633	04/28/22	04/29/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.558</b>	0.0100	mmhos/cm	1	BFD0654	04/29/22	05/03/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.28</b>		pH Units	1	BFD0653	04/29/22	05/03/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS9-4**  
**2204355-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0323	80.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>110</b>	50	mg/kg	1	BFD0557	04/26/22	04/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	95.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS9-4**  
**2204355-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0552	04/26/22	04/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0936</b>	0.0100	mg/L	1	BFE0020	05/02/22	05/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**SS9-4**  
**2204355-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.03	0.212	mg/kg dry	1	BFD0614	04/27/22	05/07/22	EPA 6020B	
Barium	83.3	0.424	"	"	"	"	"	"	
Cadmium	ND	0.212	"	"	"	"	"	"	
Copper	3.26	0.424	"	"	"	"	"	"	
Lead	3.36	0.212	"	"	"	"	"	"	
Nickel	3.82	0.424	"	"	"	"	"	"	
Selenium	0.409	0.276	"	"	"	"	"	"	
Silver	ND	0.0212	"	"	"	"	"	"	
Zinc	15.8	0.424	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0118	05/06/22	05/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.66	0.0530	mg/L dry	1	BFD0648	04/29/22	05/07/22	EPA 6020B	
Magnesium	1.08	0.0530	"	"	"	"	"	"	
Sodium	4.18	0.0530	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.396	0.00100	units	1	BFE0148	05/08/22	05/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**SS9-4**  
**2204355-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BFD0633	04/28/22	04/29/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.37	0.0100	mmhos/cm	1	BFD0654	04/29/22	05/03/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 10:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BFD0653	04/29/22	05/03/22	EPA 9045D	

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 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**BG1-1**  
**2204355-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.52	0.200	mg/kg dry	1	BFE0076	05/06/22	05/13/22	EPA 6020B	
Barium	55.0	0.400	"	"	"	"	"	"	
Selenium	0.533	0.260	"	"	"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.7		%	1	BFE0248	05/12/22	05/12/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.38		pH Units	1	BFE0227	05/11/22	05/11/22	EPA 9045D	

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 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**BG2-1**  
**2204355-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/21/22 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.59	0.200	mg/kg dry	1	BFE0076	05/06/22	05/13/22	EPA 6020B	
Barium	49.4	0.400	"	"	"	"	"	"	
Selenium	0.538	0.260	"	"	"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/21/22 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.1		%	1	BFE0248	05/12/22	05/12/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/22 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.11		pH Units	1	BFE0227	05/11/22	05/11/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

#### Batch BFD0556 - EPA 5030 Soil MS

##### Blank (BFD0556-BLK1)

Prepared & Analyzed: 04/26/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0343		"	0.0400		85.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0404		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0403		"	0.0400		101	50-150			

##### LCS (BFD0556-BS1)

Prepared & Analyzed: 04/26/22

Benzene	0.105	0.0020	mg/kg	0.100		105	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.215	0.010	"	0.200		108	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
Naphthalene	0.113	0.0038	"	0.100		113	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0335		"	0.0400		83.7	50-150			
<i>Surrogate: Toluene-d8</i>	0.0405		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0392		"	0.0400		97.9	50-150			

##### Matrix Spike (BFD0556-MS1)

Source: 2204354-01

Prepared & Analyzed: 04/26/22

Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130			
Toluene	0.107	0.0050	"	0.100	ND	107	70-130			
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130			
m,p-Xylene	0.228	0.010	"	0.200	ND	114	70-130			
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
Naphthalene	0.119	0.0038	"	0.100	ND	119	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0320		"	0.0400		80.1	50-150			
<i>Surrogate: Toluene-d8</i>	0.0404		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0385		"	0.0400		96.2	50-150			

Summit Scientific

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 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BFD0556 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BFD0556-MSD1)</b>	<b>Source: 2204354-01</b>			<b>Prepared &amp; Analyzed: 04/26/22</b>						
Benzene	0.0922	0.0020	mg/kg	0.100	ND	92.2	70-130	13.0	30	
Toluene	0.0899	0.0050	"	0.100	ND	89.9	70-130	17.0	30	
Ethylbenzene	0.0974	0.0050	"	0.100	ND	97.4	70-130	15.5	30	
m,p-Xylene	0.194	0.010	"	0.200	ND	97.0	70-130	16.1	30	
o-Xylene	0.0926	0.0050	"	0.100	ND	92.6	70-130	16.7	30	
1,2,4-Trimethylbenzene	0.0913	0.0050	"	0.100	ND	91.3	70-130	17.8	30	
1,3,5-Trimethylbenzene	0.0887	0.0050	"	0.100	ND	88.7	70-130	19.6	30	
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	12.7	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0319</i>		<i>"</i>	<i>0.0400</i>		<i>79.7</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.7</i>	<i>50-150</i>			

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BFD0557 - EPA 3550A**

**Blank (BFD0557-BLK1)**

Prepared & Analyzed: 04/26/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

**LCS (BFD0557-BS1)**

Prepared & Analyzed: 04/26/22

C10-C28 (DRO)	444	50	mg/kg	500	88.8	70-130				
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**Matrix Spike (BFD0557-MS1)**

Source: 2204354-01

Prepared & Analyzed: 04/26/22

C10-C28 (DRO)	445	50	mg/kg	500	19.5	85.0	70-130			
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**Matrix Spike Dup (BFD0557-MSD1)**

Source: 2204354-01

Prepared & Analyzed: 04/26/22

C10-C28 (DRO)	416	50	mg/kg	500	19.5	79.3	70-130	6.67	20	
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**PAH by EPA Method 8270D SIM - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BFD0552 - EPA 5030 Soil MS**

**Blank (BFD0552-BLK1)**

Prepared: 04/26/22 Analyzed: 04/27/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0332</i>		"	<i>0.0333</i>		<i>99.7</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0287</i>		"	<i>0.0333</i>		<i>86.1</i>		<i>40-150</i>			

**LCS (BFD0552-BS1)**

Prepared: 04/26/22 Analyzed: 04/27/22

Acenaphthene	0.0369	0.00500	mg/kg	0.0333	111	31-137
Anthracene	0.0356	0.00500	"	0.0333	107	30-120
Benzo (a) anthracene	0.0337	0.00500	"	0.0333	101	30-120
Benzo (a) pyrene	0.0358	0.00500	"	0.0333	107	30-120
Benzo (b) fluoranthene	0.0366	0.00500	"	0.0333	110	30-120
Benzo (k) fluoranthene	0.0396	0.00500	"	0.0333	119	30-120
Chrysene	0.0370	0.00500	"	0.0333	111	30-120
Dibenz (a,h) anthracene	0.0333	0.00500	"	0.0333	99.8	30-120
Fluoranthene	0.0350	0.00500	"	0.0333	105	30-120
Fluorene	0.0374	0.00500	"	0.0333	112	30-120
Indeno (1,2,3-cd) pyrene	0.0217	0.00500	"	0.0333	65.1	30-120
Pyrene	0.0348	0.00500	"	0.0333	104	35-142
1-Methylnaphthalene	0.0471	0.00500	"	0.0333	141	35-142
2-Methylnaphthalene	0.0415	0.00500	"	0.0333	124	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0418</i>		"	<i>0.0333</i>	<i>125</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0370</i>		"	<i>0.0333</i>	<i>111</i>	<i>40-150</i>

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BFD0552 - EPA 5030 Soil MS**

<b>Matrix Spike (BFD0552-MS1)</b>	<b>Source: 2204336-01</b>			<b>Prepared: 04/26/22 Analyzed: 04/27/22</b>						
Acenaphthene	0.0137	0.00500	mg/kg	0.0333	ND	41.0	31-137			
Anthracene	0.0149	0.00500	"	0.0333	ND	44.6	30-120			
Benzo (a) anthracene	0.0151	0.00500	"	0.0333	ND	45.4	30-120			
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.2	30-120			
Benzo (b) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.2	30-120			
Benzo (k) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.6	30-120			
Chrysene	0.0149	0.00500	"	0.0333	ND	44.7	30-120			
Dibenz (a,h) anthracene	0.0138	0.00500	"	0.0333	ND	41.3	30-120			
Fluoranthene	0.0152	0.00500	"	0.0333	ND	45.7	30-120			
Fluorene	0.0146	0.00500	"	0.0333	ND	43.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0163	0.00500	"	0.0333	ND	49.0	30-120			
Pyrene	0.0147	0.00500	"	0.0333	ND	44.1	35-142			
1-Methylnaphthalene	0.0142	0.00500	"	0.0333	ND	42.6	15-130			
2-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	45.8	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0146</i>		<i>"</i>	<i>0.0333</i>		<i>43.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0154</i>		<i>"</i>	<i>0.0333</i>		<i>46.2</i>	<i>40-150</i>			

<b>Matrix Spike Dup (BFD0552-MSD1)</b>	<b>Source: 2204336-01</b>			<b>Prepared: 04/26/22 Analyzed: 04/27/22</b>						
Acenaphthene	0.0174	0.00500	mg/kg	0.0333	ND	52.1	31-137	23.9	30	
Anthracene	0.0197	0.00500	"	0.0333	ND	59.1	30-120	27.9	30	
Benzo (a) anthracene	0.0155	0.00500	"	0.0333	ND	46.4	30-120	2.21	30	
Benzo (a) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	14.5	30	
Benzo (b) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.1	30-120	3.97	30	
Benzo (k) fluoranthene	0.0153	0.00500	"	0.0333	ND	45.8	30-120	3.82	30	
Chrysene	0.0177	0.00500	"	0.0333	ND	53.1	30-120	17.3	30	
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	27.3	30	
Fluoranthene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	0.426	30	
Fluorene	0.0194	0.00500	"	0.0333	ND	58.2	30-120	28.1	30	
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	12.4	30	
Pyrene	0.0166	0.00500	"	0.0333	ND	49.8	35-142	12.3	30	
1-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.9	15-130	15.8	50	
2-Methylnaphthalene	0.0171	0.00500	"	0.0333	ND	51.3	15-130	11.3	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0178</i>		<i>"</i>	<i>0.0333</i>		<i>53.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0193</i>		<i>"</i>	<i>0.0333</i>		<i>57.8</i>	<i>40-150</i>			

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BFE0020 - EPA 3050B**

**Blank (BFE0020-BLK1)**

Prepared: 05/02/22 Analyzed: 05/09/22

Boron ND 0.0100 mg/L

**LCS (BFE0020-BS1)**

Prepared: 05/02/22 Analyzed: 05/09/22

Boron 4.67 0.0100 mg/L 5.00 93.4 80-120

**Duplicate (BFE0020-DUP1)**

Source: 2204355-01

Prepared: 05/02/22 Analyzed: 05/09/22

Boron 0.0116 0.0100 mg/L 0.0154 28.2 20 QR-03

**Matrix Spike (BFE0020-MS1)**

Source: 2204355-01

Prepared: 05/02/22 Analyzed: 05/09/22

Boron 4.75 0.0100 mg/L 5.00 0.0154 94.6 75-125

**Matrix Spike Dup (BFE0020-MSD1)**

Source: 2204355-01

Prepared: 05/02/22 Analyzed: 05/09/22

Boron 4.90 0.0100 mg/L 5.00 0.0154 97.7 75-125 3.17 25

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BFD0614 - EPA 3050B**

**Blank (BFD0614-BLK1)**

Prepared: 04/27/22 Analyzed: 05/07/22

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

**LCS (BFD0614-BS1)**

Prepared: 04/27/22 Analyzed: 05/07/22

Arsenic	33.1	0.200	mg/kg wet	40.0	82.8	80-120
Barium	32.4	0.400	"	40.0	81.0	80-120
Cadmium	1.67	0.200	"	2.00	83.4	80-120
Copper	32.2	0.400	"	40.0	80.6	80-120
Lead	19.6	0.200	"	20.0	97.8	80-120
Nickel	35.1	0.400	"	40.0	87.6	80-120
Selenium	3.45	0.260	"	4.00	86.3	80-120
Silver	1.61	0.0200	"	2.00	80.7	80-120
Zinc	34.5	0.400	"	40.0	86.3	80-120

**Duplicate (BFD0614-DUP1)**

Source: 2204355-01

Prepared: 04/27/22 Analyzed: 05/07/22

Arsenic	1.61	0.210	mg/kg dry	1.56	3.60	20
Barium	56.4	0.420	"	55.3	1.88	20
Cadmium	0.106	0.210	"	0.110	3.61	20
Copper	2.75	0.420	"	2.72	1.04	20
Lead	3.26	0.210	"	3.25	0.264	20
Nickel	3.86	0.420	"	3.80	1.40	20
Selenium	0.389	0.273	"	0.385	0.964	20
Silver	0.0177	0.0210	"	0.0181	2.28	20
Zinc	13.1	0.420	"	12.9	1.50	20

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BFD0614 - EPA 3050B**

<b>Matrix Spike (BFD0614-MS1)</b>	<b>Source: 2204355-01</b>			<b>Prepared: 04/27/22 Analyzed: 05/07/22</b>								
Arsenic	36.9	0.210	mg/kg dry	42.0	1.56	84.1	75-125					
Barium	112	0.420	"	42.0	55.3	135	75-125					QM-05
Cadmium	1.96	0.210	"	2.10	0.110	87.9	75-125					
Copper	37.9	0.420	"	42.0	2.72	83.8	75-125					
Lead	19.6	0.210	"	21.0	3.25	77.7	75-125					
Nickel	38.9	0.420	"	42.0	3.80	83.5	75-125					
Selenium	3.27	0.273	"	4.20	0.385	68.6	75-125					QM-05
Silver	1.66	0.0210	"	2.10	0.0181	78.2	75-125					
Zinc	51.9	0.420	"	42.0	12.9	92.8	75-125					

<b>Matrix Spike Dup (BFD0614-MSD1)</b>	<b>Source: 2204355-01</b>			<b>Prepared: 04/27/22 Analyzed: 05/07/22</b>								
Arsenic	35.7	0.210	mg/kg dry	42.0	1.56	81.2	75-125	3.34	25			
Barium	106	0.420	"	42.0	55.3	121	75-125	5.31	25			
Cadmium	1.87	0.210	"	2.10	0.110	83.6	75-125	4.76	25			
Copper	36.4	0.420	"	42.0	2.72	80.1	75-125	4.13	25			
Lead	18.0	0.210	"	21.0	3.25	70.0	75-125	8.71	25			QM-05
Nickel	37.4	0.420	"	42.0	3.80	79.9	75-125	3.97	25			
Selenium	3.15	0.273	"	4.20	0.385	65.8	75-125	3.70	25			QM-05
Silver	1.58	0.0210	"	2.10	0.0181	74.3	75-125	5.09	25			QM-05
Zinc	50.1	0.420	"	42.0	12.9	88.6	75-125	3.49	25			

**Batch BFE0076 - EPA 3050B**

<b>Blank (BFE0076-BLK1)</b>	<b>Prepared: 05/06/22 Analyzed: 05/13/22</b>											
Arsenic	ND	0.200	mg/kg wet									
Barium	ND	0.400	"									
Selenium	ND	0.260	"									

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BFE0076 - EPA 3050B**

**LCS (BFE0076-BS1)**

Prepared: 05/06/22 Analyzed: 05/13/22

Arsenic	33.9	0.200	mg/kg wet	40.0		84.7	80-120			
Barium	35.3	0.400	"	40.0		88.2	80-120			
Selenium	3.66	0.260	"	4.00		91.6	80-120			

**Duplicate (BFE0076-DUP1)**

Source: 2204329-02

Prepared: 05/06/22 Analyzed: 05/13/22

Arsenic	4.74	0.200	mg/kg dry		4.85			2.42	20	
Barium	169	0.400	"		106			45.8	20	QM-02
Selenium	0.814	0.260	"		0.769			5.72	20	

**Matrix Spike (BFE0076-MS1)**

Source: 2204329-02

Prepared: 05/06/22 Analyzed: 05/13/22

Arsenic	47.4	0.200	mg/kg dry	53.7	4.85	79.4	75-125			
Barium	185	0.400	"	53.7	106	148	75-125			QM-02
Selenium	5.37	0.260	"	5.37	0.769	85.7	75-125			

**Matrix Spike Dup (BFE0076-MSD1)**

Source: 2204329-02

Prepared: 05/06/22 Analyzed: 05/13/22

Arsenic	51.0	0.200	mg/kg dry	53.7	4.85	86.1	75-125	7.34	25	
Barium	112	0.400	"	53.7	106	10.1	75-125	49.7	25	QM-02
Selenium	4.84	0.260	"	5.37	0.769	75.9	75-125	10.4	25	

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BFE0118 - 3060A Mod**

<b>Blank (BFE0118-BLK1)</b>		Prepared & Analyzed: 05/06/22									
Chromium, Hexavalent	ND	0.30	mg/kg wet								
<b>LCS (BFE0118-BS1)</b>		Prepared & Analyzed: 05/06/22									
Chromium, Hexavalent	25.7	0.30	mg/kg wet	25.0	103	80-120					
<b>Duplicate (BFE0118-DUP1)</b>		<b>Source: 2204355-01</b>		Prepared & Analyzed: 05/06/22							
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
<b>Matrix Spike (BFE0118-MS1)</b>		<b>Source: 2204355-01</b>		Prepared & Analyzed: 05/06/22							
Chromium, Hexavalent	29.1	0.30	mg/kg dry	26.3	ND	111	75-125				
<b>Matrix Spike Dup (BFE0118-MSD1)</b>		<b>Source: 2204355-01</b>		Prepared & Analyzed: 05/06/22							
Chromium, Hexavalent	28.7	0.30	mg/kg dry	26.3	ND	109	75-125	1.09		20	

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 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BFD0648 - General Preparation**

**Blank (BFD0648-BLK1)**

Prepared: 04/29/22 Analyzed: 05/07/22

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (BFD0648-BS1)**

Prepared: 04/29/22 Analyzed: 05/07/22

Calcium	5.55	0.0500	mg/L wet	5.00		111	70-130			
Magnesium	5.56	0.0500	"	5.00		111	70-130			
Sodium	5.60	0.0500	"	5.00		112	70-130			

Summit Scientific

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Entrada Consulting Group  
 240 Mesa Avenue  
 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BFD0633 - General Preparation**

<b>Duplicate (BFD0633-DUP1)</b>		<b>Source: 2204355-01</b>		<b>Prepared: 04/28/22 Analyzed: 04/29/22</b>	
% Solids	95.1		%	95.1	0.0510 20

**Batch BFE0248 - General Preparation**

<b>Duplicate (BFE0248-DUP1)</b>		<b>Source: 2203541-01</b>		<b>Prepared &amp; Analyzed: 05/12/22</b>	
% Solids	79.5		%	77.9	2.07 20

Summit Scientific

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 Grand Junction, CO, 81501

Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BFD0654 - General Preparation**

**Blank (BFD0654-BLK1)**

Prepared: 04/29/22 Analyzed: 05/03/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFD0654-BS1)**

Prepared: 04/29/22 Analyzed: 05/03/22

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BFD0654-DUP1)**

**Source: 2204337-01**

Prepared: 04/29/22 Analyzed: 05/03/22

Specific Conductance (EC) 0.316 0.0100 mmhos/cm 0.335 5.77 20

Summit Scientific

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 240 Mesa Avenue  
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Project: Dawson A1  
 Project Number: 021-187  
 Project Manager: Jeremy Pike

**Reported:**  
 05/16/22 08:21

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BFD0653 - General Preparation**

<b>LCS (BFD0653-BS1)</b>										
					Prepared: 04/29/22 Analyzed: 05/03/22					
pH	9.10		pH Units	9.18	99.1	95-105				
<b>Duplicate (BFD0653-DUP1)</b>										
					Source: 2204337-01 Prepared: 04/29/22 Analyzed: 05/03/22					
pH	8.12		pH Units	8.18	0.736	20				

**Batch BFE0227 - General Preparation**

<b>LCS (BFE0227-BS1)</b>										
					Prepared & Analyzed: 05/11/22					
pH	9.11		pH Units	9.18	99.2	95-105				
<b>Duplicate (BFE0227-DUP1)</b>										
					Source: 2204355-10 Prepared & Analyzed: 05/11/22					
pH	7.38		pH Units	7.38	0.00	20				

Summit Scientific

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: Dawson A1  
Project Number: 021-187  
Project Manager: Jeremy Pike

**Reported:**  
05/16/22 08:21

### Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- QM-02 The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the 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