

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 09, 2023

Kelly Sharp

Own Resources Operating LLC

36695 US Highway 385/PO Box 2550

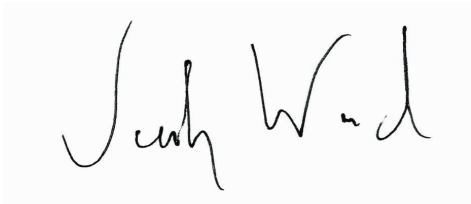
Wray, CO 80758

RE: Allen 14-19

Work Order #2310463

Enclosed are the results of analyses for samples received by Summit Scientific on 10/24/23 11:01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

Jacob Wood For Paul Shrewsbury

President



Own Resources Operating LLC
36695 US Highway 385/PO Box 2550
Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
Project Manager: Kelly Sharp

Reported:
11/09/23 08:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background	2310463-01	Soil	10/20/23 08:58	10/24/23 11:01
Tank	2310463-02	Soil	10/20/23 08:55	10/24/23 11:01
Wellhead	2310463-03	Soil	10/20/23 08:40	10/24/23 11:01
Seperator	2310463-04	Soil	10/20/23 08:50	10/24/23 11:01

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Summit Scientific

2310463

S₂

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

Client: OWN RESOURCES OPERATING LLC

Project Manager: Kelly Sharp

Address: 36695 US HWY 385/ PO BOX 250

E-Mail: pat.dolezal@ownresources.com

City/State/Zip: WRAY, CO 80758

Phone: 970-332-3585

Project Name: Allen 14-19

Sampler Name: Andrew Smith

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full COGCC Table 915-1						
1	Background	20-Oct	858am	2						x									
2	Tank	20-Oct	855am	2						x									
3	Wellhead	20-Oct	840am	2						x									
4	Seperator	20-Oct	850am	2						x									
5																			
6																			
7																			
8																			
9																			
10																			
Relinquished by: <i>Pat Dolezal</i>		Date/Time: <i>10/23/23</i> <i>852 am</i>		Received by: <i>John Wood</i>		Date/Time: <i>10/23/23 11:01</i>		Turn Around Time (Check)				Notes:							
Relinquished by:		Date/Time:		Received by:		Date/Time:		Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>							
Relinquished by:		Date/Time:		Received by:		Date/Time:		24 hours <input type="checkbox"/>				Sample Integrity:							
Relinquished by:		Date/Time:		Received by:		Date/Time:		48 hours <input type="checkbox"/>				Temperature Upon Receipt: <i>10.0</i>							
Relinquished by:		Date/Time:		Received by:		Date/Time:		Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											

S₂

S2 Work Order# 2310483

Sample Receipt Checklist

Client: OWN Client Project ID: Allen 14-19

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: 7738 2972 7582

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? ⁽¹⁾ NOTE: 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"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Taped
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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"/>	
<u>Additional Comments (if any):</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

John W. ...
Custodian Printed Name

10/23/23 11:01
Date/Time



Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Background
2310463-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1011	10/25/23	10/26/23	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: **10/20/23 08:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0316	79.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0492	123 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0449	112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1014	10/25/23	10/27/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.86	78.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Background
2310463-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0969	10/25/23	10/26/23	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: **10/20/23 08:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0028	11/01/23	11/07/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Background
2310463-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.00	0.200	mg/kg dry	1	BGJ1265	10/31/23	11/03/23	EPA 6020B	
Barium	150	0.400	"	"	"	"	"	"	
Cadmium	0.250	0.200	"	"	"	"	"	"	
Copper	2.34	0.400	"	"	"	"	"	"	
Lead	6.19	0.200	"	"	"	"	"	"	
Nickel	2.32	0.400	"	"	"	"	"	"	
Silver	0.0343	0.0200	"	"	"	"	"	"	
Zinc	8.02	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1052	10/26/23	10/27/23	EPA 7196A	

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

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.3	0.0500	mg/L dry	1	BGJ1198	10/30/23	11/04/23	EPA 6020B	
Magnesium	3.95	0.0500	"	"	"	"	"	"	
Sodium	1.00	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0398	0.00100	units	1	BGK0154	11/06/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19
 Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Background
2310463-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	96.8	%	1	BGJ1266	10/31/23	11/01/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/23 08:58**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.331	0.0100	mmhos/cm	1	BGJ1231	10/31/23	10/31/23	EPA 120.1	

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

Date Sampled: **10/20/23 08:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BGJ1230	10/31/23	10/31/23	EPA 9045D	

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 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Tank
2310463-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/23 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1011	10/25/23	10/26/23	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: **10/20/23 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0308	77.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0492	123 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0449	112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/23 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1014	10/25/23	10/27/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/20/23 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.9	87.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Tank
2310463-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/23 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0969	10/25/23	10/26/23	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: **10/20/23 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/23 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0028	11/01/23	11/07/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/20/23 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Tank
2310463-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.17	0.200	mg/kg dry	1	BGJ1265	10/31/23	11/03/23	EPA 6020B
Barium	210	0.400	"	"	"	"	"	"
Cadmium	0.241	0.200	"	"	"	"	"	"
Copper	2.64	0.400	"	"	"	"	"	"
Lead	8.18	0.200	"	"	"	"	"	"
Nickel	2.55	0.400	"	"	"	"	"	"
Silver	0.0452	0.0200	"	"	"	"	"	"
Zinc	8.24	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/20/23 08:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1052	10/26/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/20/23 08:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.2	0.0500	mg/L dry	1	BGJ1198	10/30/23	11/04/23	EPA 6020B	
Magnesium	25.2	0.0500	"	"	"	"	"	"	
Sodium	5260	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/20/23 08:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	150	0.00100	units	1	BGK0154	11/06/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/20/23 08:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Tank
2310463-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.0	%	1	BGJ1266	10/31/23	11/01/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/23 08:55**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0269	0.0100	mmhos/cm	1	BGJ1231	10/31/23	10/31/23	EPA 120.1	

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

Date Sampled: **10/20/23 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.03		pH Units	1	BGJ1230	10/31/23	10/31/23	EPA 9045D	

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Wellhead
2310463-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/23 08:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1011	10/25/23	10/26/23	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: **10/20/23 08:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0287	71.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0488	122 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0463	116 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/23 08:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1014	10/25/23	10/27/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/20/23 08:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.9	95.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Wellhead
2310463-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/23 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0969	10/25/23	10/26/23	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: **10/20/23 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/23 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0028	11/01/23	11/07/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/20/23 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

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 11/09/23 08:54

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2310463-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.19	0.200	mg/kg dry	1	BGJ1265	10/31/23	11/03/23	EPA 6020B
Barium	173	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.75	0.400	"	"	"	"	"	"
Lead	20.6	0.200	"	"	"	"	"	"
Nickel	2.85	0.400	"	"	"	"	"	"
Silver	0.0432	0.0200	"	"	"	"	"	"
Zinc	8.63	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/20/23 08:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1052	10/26/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/20/23 08:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	527	0.0500	mg/L dry	1	BGJ1198	10/30/23	11/04/23	EPA 6020B	
Magnesium	28.2	0.0500	"	"	"	"	"	"	
Sodium	170	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/20/23 08:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.95	0.00100	units	1	BGK0154	11/06/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Own Resources Operating LLC
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Project: Allen 14-19

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 Project Manager: Kelly Sharp

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 11/09/23 08:54

Wellhead
2310463-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/23 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BGJ1266	10/31/23	11/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/23 08:40**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.495	0.0100	mmhos/cm	1	BGJ1231	10/31/23	10/31/23	EPA 120.1	

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

Date Sampled: **10/20/23 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	10.0		pH Units	1	BGJ1230	10/31/23	10/31/23	EPA 9045D	

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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

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 11/09/23 08:54

Seperator
2310463-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/23 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ1011	10/25/23	10/26/23	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: **10/20/23 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0295	73.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0500	125 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0451	113 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/23 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ1014	10/25/23	10/27/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/23 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.7	85.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
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Seperator
2310463-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/23 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0969	10/25/23	10/26/23	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: **10/20/23 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0172	51.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/23 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0028	11/01/23	11/07/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/20/23 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Seperator
2310463-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.34	0.200	mg/kg dry	1	BGJ1265	10/31/23	11/03/23	EPA 6020B
Barium	164	0.400	"	"	"	"	"	"
Cadmium	1.74	0.200	"	"	"	"	"	"
Copper	21.3	0.400	"	"	"	"	"	"
Lead	14.9	0.200	"	"	"	"	"	"
Nickel	4.26	0.400	"	"	"	"	"	"
Silver	0.0369	0.0200	"	"	"	"	"	"
Zinc	15.4	0.400	"	"	"	"	"	"
Selenium	0.323	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/20/23 08:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1052	10/26/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/20/23 08:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	624	0.0500	mg/L dry	1	BGJ1198	10/30/23	11/04/23	EPA 6020B	
Magnesium	81.4	0.0500	"	"	"	"	"	"	
Sodium	14.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/20/23 08:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.142	0.00100	units	1	BGK0154	11/06/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/20/23 08:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Seperator
2310463-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.5	%	1	BGJ1266	10/31/23	11/01/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/23 08:50**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.52	0.0100	mmhos/cm	1	BGJ1231	10/31/23	10/31/23	EPA 120.1	

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

Date Sampled: **10/20/23 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.81		pH Units	1	BGJ1230	10/31/23	10/31/23	EPA 9045D	

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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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 BGJ1011 - EPA 5030 Soil MS

Blank (BGJ1011-BLK1)

Prepared: 10/25/23 Analyzed: 10/26/23

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>	0.0326		"	0.0400		81.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0477		"	0.0400		119	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0455		"	0.0400		114	50-150			

LCS (BGJ1011-BS1)

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	0.112	0.0020	mg/kg	0.100		112	70-130			
Toluene	0.148	0.0050	"	0.100		148	70-130			QLCS-01
Ethylbenzene	0.119	0.0050	"	0.100		119	70-130			
m,p-Xylene	0.245	0.010	"	0.200		122	70-130			
o-Xylene	0.107	0.0050	"	0.100		107	70-130			
1,2,4-Trimethylbenzene	0.116	0.0050	"	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.120	0.0050	"	0.100		120	70-130			
Naphthalene	0.101	0.0038	"	0.100		101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0324		"	0.0400		81.0	50-150			
<i>Surrogate: Toluene-d8</i>	0.0466		"	0.0400		116	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0406		"	0.0400		101	50-150			

Matrix Spike (BGJ1011-MS1)

Source: 2310450-01

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	0.108	0.0020	mg/kg	0.100	ND	108	70-130			
Toluene	0.137	0.0050	"	0.100	ND	137	70-130			QLCS-01
Ethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
m,p-Xylene	0.230	0.010	"	0.200	ND	115	70-130			
o-Xylene	0.0980	0.0050	"	0.100	ND	98.0	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
Naphthalene	0.0888	0.0038	"	0.100	ND	88.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0369		"	0.0400		92.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0458		"	0.0400		114	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0397		"	0.0400		99.2	50-150			

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 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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 BGJ1011 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ1011-MSD1)	Source: 2310450-01			Prepared: 10/25/23		Analyzed: 10/26/23				
Benzene	0.111	0.0020	mg/kg	0.100	ND	111	70-130	2.95	30	
Toluene	0.141	0.0050	"	0.100	ND	141	70-130	2.78	30	QLCS-01
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130	4.08	30	
m,p-Xylene	0.236	0.010	"	0.200	ND	118	70-130	2.68	30	
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130	3.81	30	
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	2.54	30	
1,3,5-Trimethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130	2.57	30	
Naphthalene	0.0854	0.0038	"	0.100	ND	85.4	70-130	3.93	30	
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.8	50-150			
Surrogate: Toluene-d8	0.0455		"	0.0400		114	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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 BGJ1014 - EPA 3550A

Blank (BGJ1014-BLK1)

Prepared: 10/25/23 Analyzed: 10/27/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		106	30-150				

LCS (BGJ1014-BS1)

Prepared: 10/25/23 Analyzed: 10/27/23

C10-C28 (DRO)	454	50	mg/kg	500		90.8	70-130				
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		92.3	30-150				

Matrix Spike (BGJ1014-MS1)

Source: 2310450-01

Prepared: 10/25/23 Analyzed: 10/27/23

C10-C28 (DRO)	439	50	mg/kg	500	ND	87.8	70-130				
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5		88.8	30-150				

Matrix Spike Dup (BGJ1014-MSD1)

Source: 2310450-01

Prepared: 10/25/23 Analyzed: 10/27/23

C10-C28 (DRO)	467	50	mg/kg	500	ND	93.5	70-130	6.22	20		
Surrogate: <i>o</i> -Terphenyl	11.8		"	12.5		94.7	30-150				

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 36695 US Highway 385/PO Box 2550
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Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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 BGJ0969 - EPA 5030 Soil MS

Blank (BGJ0969-BLK1)

Prepared & Analyzed: 10/25/23

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>0.0357</i>		"	<i>0.0333</i>		<i>107</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0363</i>		"	<i>0.0333</i>		<i>109</i>	<i>40-150</i>			

LCS (BGJ0969-BS1)

Prepared & Analyzed: 10/25/23

Acenaphthene	0.0292	0.00500	mg/kg	0.0333		87.6	31-137			
Anthracene	0.0300	0.00500	"	0.0333		90.0	30-120			
Benzo (a) anthracene	0.0294	0.00500	"	0.0333		88.1	30-120			
Benzo (a) pyrene	0.0299	0.00500	"	0.0333		89.6	30-120			
Benzo (b) fluoranthene	0.0306	0.00500	"	0.0333		91.7	30-120			
Benzo (k) fluoranthene	0.0296	0.00500	"	0.0333		88.7	30-120			
Chrysene	0.0305	0.00500	"	0.0333		91.6	30-120			
Dibenz (a,h) anthracene	0.0276	0.00500	"	0.0333		82.9	30-120			
Fluoranthene	0.0301	0.00500	"	0.0333		90.3	30-120			
Fluorene	0.0293	0.00500	"	0.0333		87.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0219	0.00500	"	0.0333		65.7	30-120			
Pyrene	0.0307	0.00500	"	0.0333		92.0	35-142			
1-Methylnaphthalene	0.0296	0.00500	"	0.0333		89.0	35-142			
2-Methylnaphthalene	0.0296	0.00500	"	0.0333		88.8	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0298</i>		"	<i>0.0333</i>		<i>89.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		"	<i>0.0333</i>		<i>91.2</i>	<i>40-150</i>			

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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 BGJ0969 - EPA 5030 Soil MS

Matrix Spike (BGJ0969-MS1)	Source: 2310447-01			Prepared & Analyzed: 10/25/23								
Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.3	31-137					
Anthracene	0.0175	0.00500	"	0.0333	ND	52.4	30-120					
Benzo (a) anthracene	0.0169	0.00500	"	0.0333	ND	50.6	30-120					
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	53.9	30-120					
Benzo (b) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.4	30-120					
Benzo (k) fluoranthene	0.0169	0.00500	"	0.0333	ND	50.8	30-120					
Chrysene	0.0177	0.00500	"	0.0333	ND	53.2	30-120					
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.4	30-120					
Fluoranthene	0.0158	0.00500	"	0.0333	ND	47.4	30-120					
Fluorene	0.0222	0.00500	"	0.0333	ND	66.6	30-120					
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.3	30-120					
Pyrene	0.0165	0.00500	"	0.0333	ND	49.6	35-142					
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.3	15-130					
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0168</i>		<i>"</i>	<i>0.0333</i>		<i>50.3</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0165</i>		<i>"</i>	<i>0.0333</i>		<i>49.4</i>	<i>40-150</i>					

Matrix Spike Dup (BGJ0969-MSD1)	Source: 2310447-01			Prepared & Analyzed: 10/25/23								
Acenaphthene	0.0144	0.00500	mg/kg	0.0333	ND	43.1	31-137	24.8	30			
Anthracene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	9.22	30			
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	7.81	30			
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	3.40	30			
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	8.93	30			
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.7	30-120	5.54	30			
Chrysene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	7.06	30			
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.5	30-120	0.180	30			
Fluoranthene	0.0187	0.00500	"	0.0333	ND	56.2	30-120	17.0	30			
Fluorene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	34.7	30			QR-02
Indeno (1,2,3-cd) pyrene	0.0169	0.00500	"	0.0333	ND	50.6	30-120	6.87	30			
Pyrene	0.0181	0.00500	"	0.0333	ND	54.3	35-142	9.03	30			
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130	20.6	50			
2-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.5	15-130	19.5	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0198</i>		<i>"</i>	<i>0.0333</i>		<i>59.5</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0189</i>		<i>"</i>	<i>0.0333</i>		<i>56.8</i>	<i>40-150</i>					

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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

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

Batch BGK0028 - EPA 3050B

Blank (BGK0028-BLK1)

Prepared: 11/01/23 Analyzed: 11/07/23

Boron ND 2.00 mg/L

LCS (BGK0028-BS1)

Prepared: 11/01/23 Analyzed: 11/07/23

Boron 5.74 2.00 mg/L 5.00 115 80-120

Duplicate (BGK0028-DUP1)

Source: 2310449-01

Prepared: 11/01/23 Analyzed: 11/07/23

Boron 0.115 2.00 mg/L 0.129 11.3 20

Matrix Spike (BGK0028-MS1)

Source: 2310449-01

Prepared: 11/01/23 Analyzed: 11/07/23

Boron 5.47 2.00 mg/L 5.00 0.129 107 75-125

Matrix Spike Dup (BGK0028-MSD1)

Source: 2310449-01

Prepared: 11/01/23 Analyzed: 11/07/23

Boron 6.15 2.00 mg/L 5.00 0.129 121 75-125 11.8 25

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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 BGJ1265 - EPA 3050B

Blank (BGJ1265-BLK1)

Prepared: 10/31/23 Analyzed: 11/03/23

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	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BGJ1265-BS1)

Prepared: 10/31/23 Analyzed: 11/03/23

Arsenic	43.7	0.200	mg/kg wet	40.0	109	80-120				
Barium	36.9	0.400	"	40.0	92.2	80-120				
Cadmium	1.91	0.200	"	2.00	95.6	80-120				
Copper	45.6	0.400	"	40.0	114	80-120				
Lead	18.3	0.200	"	20.0	91.6	80-120				
Nickel	44.7	0.400	"	40.0	112	80-120				
Silver	1.89	0.0200	"	2.00	94.3	80-120				
Zinc	43.9	0.400	"	40.0	110	80-120				
Selenium	4.08	0.260	"	4.00	102	80-120				

Duplicate (BGJ1265-DUP1)

Source: 2310450-01

Prepared: 10/31/23 Analyzed: 11/03/23

Arsenic	1.26	0.200	mg/kg dry	1.09	13.8	20				
Barium	227	0.400	"	143	45.4	20				QR-04
Cadmium	0.521	0.200	"	0.290	56.8	20				QR-04
Copper	4.81	0.400	"	3.35	35.8	20				QR-04
Lead	9.65	0.200	"	7.18	29.3	20				QR-04
Nickel	3.43	0.400	"	2.78	21.0	20				QR-01
Silver	0.0470	0.0200	"	0.0331	34.7	20				QR-01
Zinc	20.5	0.400	"	14.6	33.8	20				QR-04
Selenium	0.225	0.260	"	ND	200	20				QR-01

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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 BGJ1265 - EPA 3050B

Matrix Spike (BGJ1265-MS1)

Source: 2310450-01

Prepared: 10/31/23 Analyzed: 11/03/23

Arsenic	16.8	0.200	mg/kg dry	53.5	1.09	29.4	75-125				QM-07
Barium	224	0.400	"	53.5	143	151	75-125				QM-07
Cadmium	2.57	0.200	"	2.67	0.290	85.2	75-125				
Copper	19.5	0.400	"	53.5	3.35	30.2	75-125				QM-07
Lead	28.9	0.200	"	26.7	7.18	81.3	75-125				
Nickel	19.3	0.400	"	53.5	2.78	30.9	75-125				QM-07
Silver	2.39	0.0200	"	2.67	0.0331	88.1	75-125				
Zinc	28.4	0.400	"	53.5	14.6	25.9	75-125				QM-07
Selenium	5.68	0.260	"	5.35	ND	106	75-125				

Matrix Spike Dup (BGJ1265-MSD1)

Source: 2310450-01

Prepared: 10/31/23 Analyzed: 11/03/23

Arsenic	16.3	0.200	mg/kg dry	53.5	1.09	28.5	75-125	2.67	25		QM-07
Barium	224	0.400	"	53.5	143	151	75-125	0.120	25		QM-07
Cadmium	2.57	0.200	"	2.67	0.290	85.4	75-125	0.187	25		
Copper	19.3	0.400	"	53.5	3.35	29.8	75-125	1.15	25		QM-07
Lead	28.9	0.200	"	26.7	7.18	81.3	75-125	0.0203	25		
Nickel	19.1	0.400	"	53.5	2.78	30.5	75-125	1.15	25		QM-07
Silver	2.36	0.0200	"	2.67	0.0331	87.1	75-125	1.13	25		
Zinc	28.1	0.400	"	53.5	14.6	25.2	75-125	1.24	25		QM-07
Selenium	6.38	0.260	"	5.35	ND	119	75-125	11.6	25		

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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 BGJ1052 - 3060A Mod

Blank (BGJ1052-BLK1)

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ1052-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent 24.0 0.30 mg/kg wet 25.0 96.0 80-120

Duplicate (BGJ1052-DUP1)

Source: 2310463-01

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ1052-MS1)

Source: 2310463-01

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent 23.4 0.30 mg/kg dry 25.8 ND 90.6 75-125

Matrix Spike Dup (BGJ1052-MSD1)

Source: 2310463-01

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent 23.4 0.30 mg/kg dry 25.8 ND 90.4 75-125 0.221 20

Summit Scientific

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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 BGJ1198 - General Preparation

Blank (BGJ1198-BLK1)

Prepared: 10/30/23 Analyzed: 11/03/23

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

LCS (BGJ1198-BS1)

Prepared: 10/30/23 Analyzed: 11/03/23

Calcium	4.45	0.0500	mg/L wet	5.00	89.0	70-130
Magnesium	5.41	0.0500	"	5.00	108	70-130
Sodium	5.24	0.0500	"	5.00	105	70-130

Summit Scientific

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BGJ1266 - General Preparation

Duplicate (BGJ1266-DUP1)		Source: 2310449-13		Prepared: 10/31/23 Analyzed: 11/01/23	
% Solids	81.0	%		82.1	1.37 20

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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

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

Batch BGJ1231 - General Preparation

Blank (BGJ1231-BLK1)

Prepared & Analyzed: 10/31/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ1231-BS1)

Prepared & Analyzed: 10/31/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105


Duplicate (BGJ1231-DUP1)

Source: 2310433-01

Prepared & Analyzed: 10/31/23

Specific Conductance (EC) 0.0581 0.0100 mmhos/cm 0.0593 2.16 20

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Own Resources Operating LLC
 36695 US Highway 385/PO Box 2550
 Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
 Project Manager: Kelly Sharp

Reported:
 11/09/23 08:54

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

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

Batch BGJ1230 - General Preparation

LCS (BGJ1230-BS1)

Prepared & Analyzed: 10/31/23

pH	9.02	pH Units	9.18	98.3	95-105
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Duplicate (BGJ1230-DUP1)

Source: 2309584-05

Prepared & Analyzed: 10/31/23

pH	7.94	pH Units	7.94	0.00	20
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Own Resources Operating LLC
36695 US Highway 385/PO Box 2550
Wray CO, 80758

Project: Allen 14-19

Project Number: [none]
Project Manager: Kelly Sharp

Reported:
11/09/23 08:54

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QLCS-01 The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
- 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