

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 18, 2024

Justin Onwiler

ERM

555 17th St

Denver, CO 80202

RE: Chevron RBU - Ries 3-19

Work Order #2409129

Enclosed are the results of analyses for samples received by Summit Scientific on 09/10/24 17:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury
President



ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19
Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
24968-WH-01-N-4-20240910	2409129-01	Soil	09/10/24 08:30	09/10/24 17:22
24968-WH-01-N-6-20240910	2409129-02	Soil	09/10/24 08:45	09/10/24 17:22
24968-WH-01-N-8-20240910	2409129-03	Soil	09/10/24 08:55	09/10/24 17:22
24968-WH-01-E-4-20240910	2409129-04	Soil	09/10/24 09:15	09/10/24 17:22
24968-WH-01-E-6-20240910	2409129-05	Soil	09/10/24 09:20	09/10/24 17:22
24968-WH-01-E-8-20240910	2409129-06	Soil	09/10/24 09:25	09/10/24 17:22
24968-WH-01-S-4-20240910	2409129-07	Soil	09/10/24 08:39	09/10/24 17:22
24968-WH-01-S-6-20240910	2409129-08	Soil	09/10/24 08:55	09/10/24 17:22
24968-WH-01-S-8-20240910	2409129-09	Soil	09/10/24 09:08	09/10/24 17:22
24968-WH-01-W-4-20240910	2409129-10	Soil	09/10/24 09:28	09/10/24 17:22
24968-WH-01-W-6-20240910	2409129-11	Soil	09/10/24 09:33	09/10/24 17:22
24968-WH-01-W-8-20240910	2409129-12	Soil	09/10/24 09:36	09/10/24 17:22
24968-BG-01-4-20240910	2409129-13	Soil	09/10/24 09:00	09/10/24 17:22
24968-BG-02-4-20240910	2409129-14	Soil	09/10/24 09:20	09/10/24 17:22
24968-BG-03-4-20240910	2409129-15	Soil	09/10/24 08:30	09/10/24 17:22
24968-FL-01-N-1-20240910	2409129-16	Soil	09/10/24 11:15	09/10/24 17:22
24968-FL-01-N-3-20240910	2409129-17	Soil	09/10/24 11:20	09/10/24 17:22
24968-FL-01-N-5-20240910	2409129-18	Soil	09/10/24 11:25	09/10/24 17:22
24968-FL-01-E-1-20240910	2409129-19	Soil	09/10/24 10:55	09/10/24 17:22
24968-FL-01-E-3-20240910	2409129-20	Soil	09/10/24 11:00	09/10/24 17:22
24968-FL-01-E-5-20240910	2409129-21	Soil	09/10/24 11:05	09/10/24 17:22
24968-FL-01-W-1-20240910	2409129-22	Soil	09/10/24 11:16	09/10/24 17:22
24968-FL-01-W-3-20240910	2409129-23	Soil	09/10/24 11:20	09/10/24 17:22
24968-FL-01-W-5-20240910	2409129-24	Soil	09/10/24 11:25	09/10/24 17:22
24968-FL-01-S-1-20240910	2409129-25	Soil	09/10/24 10:58	09/10/24 17:22
24968-FL-01-S-3-20240910	2409129-26	Soil	09/10/24 11:02	09/10/24 17:22
24968-FL-01-S-5-20240910	2409129-27	Soil	09/10/24 11:06	09/10/24 17:22

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19
Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
24968-BG-04-4-20240910	2409129-28	Soil	09/10/24 11:02	09/10/24 17:22
24968-BG-05-4-20240910	2409129-29	Soil	09/10/24 11:16	09/10/24 17:22
24968-BG-06-4-20240910	2409129-30	Soil	09/10/24 10:45	09/10/24 17:22

Case Narrative

Sample IDs have been corrected to match COC on 9/18/24.

This is a revision of the report originally sent on 9/16/24 at 12:53 MT.

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID 2409129.1 Page 1 of 2

Client: <u>ERM</u>	Send Data To: Project Manager: <u>Justin Onwiler</u>	Send Invoice To: Company: <u>Chevron RBU</u>
Address: <u>555 17th St., 1700</u>	E-Mail: <u>justin.onwiler@ERM.com</u>	Project Name/Location: <u>Chevron / Rics 3-19</u>
City/State/Zip: <u>Denver, CO 80202</u>	Project Name: <u>Chevron RBU - Rics 3-19</u>	AFE#: <u>WWRNEA 2718 ABN</u>
Phone:	Project Number: <u>0736294</u>	PO/Billing Codes:
Sampler Name: <u>3P, CB, NS, NB, SS, NC</u>	Contact: <u>Dan Peterson</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	pH by 9045D	SAFS			
1	24968-WH-01-N-4-20240910		8:30	1						X			X				
2	24968-WH-01-B-6-20240910		8:45														
3	24968-WH-01-N-8-20240910		8:55														
4	24968-WH-01-E-4-20240910		9:15														
5	24968-WH-01-E-6-20240910		9:20														
6	24968-WH-01-E-8-20240910		9:25														
7	24968-WH-01-S-4-20240910		8:39														
8	24968-WH-01-S-6-20240910		8:55														
9	24968-WH-01-S-8-20240910		9:08														
10	24968-WH-01-W-4-20240910		9:28														
11	24968-WH-01-W-6-20240910		9:33														
12	24968-WH-01-W-8-20240910		9:36														
13	24968-B6-01-4-20240910		9:00														
14	24968-B6-02-4-20240910		9:20														
15	24968-B6-03-4-20240910		8:30														

Relinquished by: <u>Nathun Champkin</u> Date/Time: <u>9/10/24 17:20</u>	Received by: <u>[Signature]</u> Date/Time: <u>9/10/24 17:22</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Received by:	Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
Relinquished by:	Received by:	2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>13.6</u>	Corrected Temperature	Standard	Field Turb.	
	IR gun #: <u>2</u>		HNO3 lot #:	

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 2 of 2
2409129.2	

Client: ERM	Send Data To: Project Manager: Justin Onwiler	Send Invoice To: Company:
Address: 555 17th St. 1700	E-Mail: justin.onwiler@ERM.com	Project Name/Location:
City/State/Zip: Denver, CO 80202	Project Name: Chevron RBO- Ries 3-19	AFE#:
Phone:	Project Number:	PO/Billing Codes:
Sampler Name: SP, CB, NS, NB, SS, NL		Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			Other	SAR-20A					
1	24968-FL-01-N-1-20240910	9/10/2024	1115	1						X		X							
2	24968-FL-01-N-3-20240910		1120	1															
3	24968-FL-01-N-5-20240910		1125	1															
4	24968-FL-01-E-1-20240910		1055	1															
5	24968-FL-01-E-3-20240910		1100	1															
6	24968-FL-01-E-5-20240910		1105	1															
7	24968-FL-01-W-1-20240910		1116	1															
8	24968-FL-01-W-3-20240910		1120	1															
9	24968-FL-01-W-5-20240910		1125	1															
10	24968-FL-01-S-1-20240910		1058	1															
11	24968-FL-01-S-3-20240910		1102	1															
12	24968-FL-01-S-5-20240910		1106	1															
13	24968-BG-01-4-20240910		1102	1															
14	24968-BG-05-4-20240910		1116	1															
15	24968-BG-06-4-20240910	✓	1045	1															

Relinquished by: <u>Nathan Chamberlain</u>	Date/Time: <u>9/10/2024</u>	Received by: <u>Justin Onwiler</u>	Date/Time: <u>9/10/24 17:22</u>	TAT Business Days	Field DO	Notes: 15 samples for SAR by 20 Be
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>13.0</u>	Corrected Temperature _____	IR gun #: <u>2</u>	HNO3 lot #: _____			

S₂

2/2

S2 Work Order# 2409129

Sample Receipt Checklist

Client: ERM

Client Project ID: Chromium-RBU-Ries 3-91

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

Airbill #: _____

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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no TAT
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"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Control Form #: SRC-001

AS

Custodian Printed Name

9/10/24

Date/Time



ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-WH-01-N-4-20240910

2409129-01 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.5		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-WH-01-N-6-20240910
2409129-02 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 08:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.8		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19
Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-WH-01-N-8-20240910
2409129-03 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 08:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.8		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

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Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-WH-01-E-4-20240910
2409129-04 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 09:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.2		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-WH-01-E-6-20240910
2409129-05 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.3		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-WH-01-E-8-20240910
2409129-06 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 09:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.9		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

Summit Scientific

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Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
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Reported:
09/18/24 07:54

24968-WH-01-S-4-20240910
2409129-07 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 08:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.9		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

Summit Scientific

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ERM
555 17th St
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Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-WH-01-S-6-20240910
2409129-08 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 08:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.6		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

Summit Scientific

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Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
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Reported:
09/18/24 07:54

24968-WH-01-S-8-20240910
2409129-09 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 09:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.0		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

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Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-WH-01-W-4-20240910
2409129-10 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 09:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.4		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

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555 17th St
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Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-WH-01-W-6-20240910
2409129-11 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 09:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.8		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

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Project Number: UWRNE-A2718-ABN 0736294
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Reported:
09/18/24 07:54

24968-WH-01-W-8-20240910
2409129-12 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 09:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.2		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

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Reported:
09/18/24 07:54

24968-BG-01-4-20240910
2409129-13 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.7		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

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Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-BG-02-4-20240910
2409129-14 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.9		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

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Project Number: UWRNE-A2718-ABN 0736294
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Reported:
09/18/24 07:54

24968-BG-03-4-20240910
2409129-15 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 08:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.6		pH Units	1	BHI0320	09/11/24	09/11/24	EPA 9045D	

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-N-1-20240910
2409129-16 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	505	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	97.2	0.0500	"	"	"	"	"	"	
Sodium	109	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.16	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.8		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19
Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-N-3-20240910
2409129-17 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	49.5	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	32.9	0.0500	"	"	"	"	"	"	
Sodium	237	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	6.41	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.4		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-N-5-20240910
2409129-18 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.1	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	21.5	0.0500	"	"	"	"	"	"	
Sodium	188	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.35	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-E-1-20240910
2409129-19 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 10:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	61.6	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	15.6	0.0500	"	"	"	"	"	"	
Sodium	93.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 10:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.74	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 10:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.4		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-E-3-20240910
2409129-20 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	96.3	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	45.9	0.0500	"	"	"	"	"	"	
Sodium	157	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.30	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-E-5-20240910
2409129-21 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	62.4	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	33.1	0.0500	"	"	"	"	"	"	
Sodium	208	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	5.30	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.4		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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ERM
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Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-W-1-20240910
2409129-22 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	188	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	44.2	0.0500	"	"	"	"	"	"	
Sodium	17.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.295	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.4		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-W-3-20240910
2409129-23 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	39.3	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	21.3	0.0500	"	"	"	"	"	"	
Sodium	145	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.63	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	94.9		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-W-5-20240910
2409129-24 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	85.8	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	60.9	0.0500	"	"	"	"	"	"	
Sodium	206	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.16	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.9		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-S-1-20240910
2409129-25 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 10:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	147	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	30.9	0.0500	"	"	"	"	"	"	
Sodium	76.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 10:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.50	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 10:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.2		%	1	BHI0324	09/11/24	09/11/24	Calculation	

Summit Scientific

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Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-S-3-20240910
2409129-26 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	114	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	122	0.0500	"	"	"	"	"	"	
Sodium	344	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	5.34	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	92.6		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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Project: Chevron RBU - Ries 3-19

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Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-FL-01-S-5-20240910
2409129-27 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	107	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	77.9	0.0500	"	"	"	"	"	"	
Sodium	212	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.80	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.8		%	1	BHI0324	09/11/24	09/11/24	Calculation	

Summit Scientific

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555 17th St
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Project: Chevron RBU - Ries 3-19
Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-BG-04-4-20240910
2409129-28 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	55.2	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	30.9	0.0500	"	"	"	"	"	"	
Sodium	84.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.26	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.9		%	1	BHI0324	09/11/24	09/11/24	Calculation	

Summit Scientific

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Reported:
09/18/24 07:54

24968-BG-05-4-20240910
2409129-29 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	176	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	210	0.0500	"	"	"	"	"	"	
Sodium	835	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	10.1	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.7		%	1	BHI0324	09/11/24	09/11/24	Calculation	

Summit Scientific

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Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

24968-BG-06-4-20240910
2409129-30 (Soil)

Summit Scientific

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

Date Sampled: **09/10/24 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	70.6	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	45.3	0.0500	"	"	"	"	"	"	
Sodium	276	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/10/24 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	6.31	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/10/24 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	92.1		%	1	BHI0324	09/11/24	09/11/24	Calculation	

Summit Scientific

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555 17th St
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

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 BHI0417 - General Preparation

Blank (BHI0417-BLK1)

Prepared: 09/12/24 Analyzed: 09/13/24

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

LCS (BHI0417-BS1)

Prepared: 09/12/24 Analyzed: 09/13/24

Calcium	5.31	0.0500	mg/L wet	5.00	106	70-130				
Magnesium	5.30	0.0500	"	5.00	106	70-130				
Sodium	5.12	0.0500	"	5.00	102	70-130				

Summit Scientific

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Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/18/24 07:54

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 BHI0324 - General Preparation

Duplicate (BHI0324-DUP1)

Source: 2409018-05

Prepared & Analyzed: 09/11/24

% Solids	83.1		%		83.5			0.484	20	
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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.



ERM
555 17th St
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHI0320 - General Preparation

LCS (BHI0320-BS1)

Prepared & Analyzed: 09/11/24

pH 9.2 pH Units 9.18 99.9 95-105

Duplicate (BHI0320-DUP1)

Source: 2409129-01

Prepared & Analyzed: 09/11/24

pH 8.5 pH Units 8.5 0.236 20

Summit Scientific

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Notes and Definitions

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