

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 15, 2025

Justin Onwiler

ERM

555 17th St

Denver, CO 80202

RE: Chevron RBU - Baker State B #36-12

Work Order #2501355

Enclosed are the results of analyses for samples received by Summit Scientific on 01/24/25 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Amanda Stilwell". The signature is fluid and cursive, with a large initial "A" and a long, sweeping underline.

Amanda Stilwell For Paul Shrewsbury  
President



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
20770-BG-01-5-20250123	2501355-01	Soil	01/23/25 14:00	01/24/25 16:25
20770-BG-02-5-20250123	2501355-02	Soil	01/23/25 13:20	01/24/25 16:25
20770-BG-03-5-20250123	2501355-03	Soil	01/23/25 13:20	01/24/25 16:25
20770-BG-04-5-20250123	2501355-04	Soil	01/23/25 13:55	01/24/25 16:25
20770-BG-05-5-20250123	2501355-05	Soil	01/23/25 14:25	01/24/25 16:25
20770-WH-02-N-5-20250123	2501355-06	Soil	01/23/25 11:45	01/24/25 16:25
20770-WH-02-N-7-20250123	2501355-07	Soil	01/23/25 12:50	01/24/25 16:25
20770-WH-02-E-5-20250123	2501355-08	Soil	01/23/25 12:10	01/24/25 16:25
20770-WH-02-E-7-20250123	2501355-09	Soil	01/23/25 12:25	01/24/25 16:25
20770-WH-02-S-5-20250123	2501355-10	Soil	01/23/25 10:40	01/24/25 16:25
20770-WH-02-S-7-20250123	2501355-11	Soil	01/23/25 10:55	01/24/25 16:25
20770-WH-02-W-5-20250123	2501355-12	Soil	01/23/25 10:30	01/24/25 16:25
20770-WH-02-W-7-20250123	2501355-13	Soil	01/23/25 10:45	01/24/25 16:25

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

Lab ID	Page 1 of 1
2501355	

<b>Send Data To:</b>		<b>Send Invoice To:</b>
Client: ERM	Project Manager: Justin Onweiler	Company: Chevron - RBU
Address: 1200 17th St Floor 10	E-Mail: justin.onweiler@erm.com, stephen.james@erm.com	Project Name/Location: Chevron/Baker State B #36-12
City/State/Zip: Denver, CO 80202		AFE#: UWRWEA1715ABN
Phone: 303-968-2785	Project Name: Chevron RBU - Baker State B #36-12	PO/Billing Codes:
Sampler Name: NC, JM, JH, NS	Project Number: 0736294	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Soil Suitability	Full List Organics	Inorganics	
1	20770-BG-01-5-20250123	1/23/2025	1400	2						x			x	x		
2	20770-BG-02-5-20250123	1/23/2025	1320	2						x			x	x		
3	20770-BG-03-5-20250123	1/23/2025	1320	2						x			x	x		
4	20770-BG-04-5-20250123	1/23/2025	1355	2						x			x	x		
5	20770-BG-05-5-20250123	1/23/2025	1425	2						x			x	x		
6	20770-WH-02-N-5-20250123	1/23/2025	1145	2						x			x	x	x	
7	20770-WH-02-N-7-20250123	1/23/2025	1250	2						x			x	x	x	
8	20770-WH-02-E-5-20250123	1/23/2025	1210	2						x			x	x	x	
9	20770-WH-02-E-7-20250123	1/23/2025	1225	2						x			x	x	x	
10	20770-WH-02-S-5-20250123	1/23/2025	1040	2						x			x	x	x	
11	20770-WH-02-S-7-20250123	1/23/2025	1055	2						x			x	x	x	
12	20770-WH-02-W-5-20250123	1/23/2025	1030	2						x			x	x	x	
13	20770-WH-02-W-7-20250123	1/23/2025	1045	2						x			x	x	x	
14																
15																
16																

Relinquished by: <i>Nathan Champion</i>	Date/Time: 1/24/25/1625	Received by: <i>Arle...</i>	Date/Time: 1/24/25 16:25	TAT Business Days	Field DO	Notes:
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	X Field Turb.	
Temperature Upon Receipt: 5.3	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S<sub>2</sub>

S2 Work Order# 2501355

Sample Receipt Checklist

Client: ERM Client Project ID: CHENOM RBN - Baker State B #36-12

Received Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_

Matrix (Circle all that apply) Air/Soil/Water/Other  Temp (°C) 5.3 Thermometer # 2

Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other

	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.	✓			on ice
If custody seals are present, are they intact? <sup>(1)</sup>			✓	
Are samples due within 48 hours?		✓		
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, Total Residual Chlorine (TRC)			✓	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	✓			
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	✓			
Were all samples received intact? <sup>(1)</sup>	✓			
Was adequate sample volume provided? <sup>(1)</sup>	✓			
Were samples provided in appropriate bottle ware?	✓			
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	✓			
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	✓			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>			✓	
Are any samples/bottles preserved ( <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.		✓		
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		✓		

Additional Comments (if any):

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

SN  
Custodian Printed Name

1/24/25  
Date/Time



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-BG-01-5-20250123**  
**2501355-01 (Soil)**

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

Date Sampled: **01/23/25 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB1390	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.93	0.200	mg/kg dry	1	BIC0410	03/07/25	04/14/25	EPA 6020B	
Barium	124	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.29	0.400	"	"	"	"	"	"	
Lead	10.0	0.200	"	"	"	"	"	"	
Nickel	2.29	0.400	"	"	"	"	"	"	
Silver	0.0296	0.0200	"	"	"	"	"	"	
Zinc	10.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	78.4	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	59.2	0.0500	"	"	"	"	"	"	
Sodium	308	0.0500	"	"	"	"	"	"	

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Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-BG-01-5-20250123**  
**2501355-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/23/25 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.39	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

Date Sampled: **01/23/25 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.92	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.0		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-BG-02-5-20250123**  
**2501355-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB1390	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.41	0.200	mg/kg dry	1	BIC0410	03/07/25	04/14/25	EPA 6020B	
Barium	80.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.62	0.400	"	"	"	"	"	"	
Lead	9.50	0.200	"	"	"	"	"	"	
Nickel	3.22	0.400	"	"	"	"	"	"	
Silver	0.0214	0.0200	"	"	"	"	"	"	
Zinc	11.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	103	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	156	0.0500	"	"	"	"	"	"	
Sodium	749	0.0500	"	"	"	"	"	"	

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-BG-02-5-20250123**  
**2501355-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.9	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.03	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.3		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-BG-03-5-20250123**  
**2501355-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB1390	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.875</b>	0.200	mg/kg dry	1	BIC0410	03/07/25	04/14/25	EPA 6020B	
Barium	<b>134</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.216</b>	0.200	"	"	"	"	"	"	
Copper	<b>1.84</b>	0.400	"	"	"	"	"	"	
Lead	<b>6.74</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.25</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0361</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>7.07</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>56.1</b>	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	<b>74.8</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>563</b>	0.0500	"	"	"	"	"	"	

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Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
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**Reported:**  
04/15/25 14:57

**20770-BG-03-5-20250123**  
**2501355-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.6	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.72	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.4		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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555 17th St  
Denver CO, 80202

Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-BG-04-5-20250123**  
**2501355-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB1390	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.464</b>	0.200	mg/kg dry	1	BIC0410	03/07/25	04/14/25	EPA 6020B	
<b>Barium</b>	<b>55.2</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>0.781</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>2.66</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>0.929</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>3.45</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>41.7</b>	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
<b>Magnesium</b>	<b>4.26</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>40.7</b>	0.0500	"	"	"	"	"	"	

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**Reported:**  
04/15/25 14:57

**20770-BG-04-5-20250123**  
**2501355-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/23/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.61	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

Date Sampled: **01/23/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.3		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.393	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.2		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-BG-05-5-20250123**  
**2501355-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIB1390	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>1.54</b>	0.200		mg/kg dry	1	BIC0410	03/07/25	04/14/25	EPA 6020B	
Barium	<b>41.4</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>1.82</b>	0.400		"	"	"	"	"	"	
Lead	<b>8.91</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.14</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0262</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>8.40</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>42.9</b>	0.0500		mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	<b>24.0</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>163</b>	0.0500		"	"	"	"	"	"	

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Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-BG-05-5-20250123**  
**2501355-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/23/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.94	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

Date Sampled: **01/23/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.980	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.2		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-N-5-20250123**  
**2501355-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA1432	01/30/25	02/07/25	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: **01/23/25 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0341	85.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0354	88.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIA1434	01/30/25	02/06/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.88	79.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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04/15/25 14:57

**20770-WH-02-N-5-20250123**  
**2501355-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0016	02/03/25	02/08/25	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: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.2 %	40-140		"	"	"	"	

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

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1390	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWEA1715ABN  
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**Reported:**  
04/15/25 14:57

**20770-WH-02-N-5-20250123**  
**2501355-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.548	0.200	mg/kg dry	1	BIC0410	03/07/25	04/14/25	EPA 6020B	
Barium	69.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.10	0.400	"	"	"	"	"	"	
Lead	3.83	0.200	"	"	"	"	"	"	
Nickel	1.22	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.86	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	71.7	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	3.34	0.0500	"	"	"	"	"	"	
Sodium	27.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.852	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

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**Reported:**  
04/15/25 14:57

**20770-WH-02-N-5-20250123**  
**2501355-06 (Soil)**

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

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.5		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.251	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.4		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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**Reported:**  
04/15/25 14:57

**20770-WH-02-N-7-20250123**  
**2501355-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1432	01/30/25	02/06/25	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: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0260	65.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0366	91.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1434	01/30/25	02/06/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.7	85.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**Reported:**  
04/15/25 14:57

**20770-WH-02-N-7-20250123**  
**2501355-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0016	02/03/25	02/08/25	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: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.4 %	40-140		"	"	"	"	

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

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1391	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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555 17th St  
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Project Number: UWRWEA1715ABN  
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**Reported:**  
04/15/25 14:57

**20770-WH-02-N-7-20250123**  
**2501355-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.517	0.200	mg/kg dry	1	BIC0410	03/07/25	04/14/25	EPA 6020B
Barium	50.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.965	0.400	"	"	"	"	"	"
Lead	3.08	0.200	"	"	"	"	"	"
Nickel	1.28	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	5.31	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	119	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	96.9	0.0500	"	"	"	"	"	"	
Sodium	541	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.92	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

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**Reported:**  
04/15/25 14:57

**20770-WH-02-N-7-20250123**  
**2501355-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.7		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.393	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.2		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-E-5-20250123**  
**2501355-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1432	01/30/25	02/07/25	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: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0356	89.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1434	01/30/25	02/06/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.23	73.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-E-5-20250123**  
**2501355-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0016	02/03/25	02/25/25	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: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0136	40.9 %	40-140		"	"	"	"	

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

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1391	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM  
555 17th St  
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Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-E-5-20250123**  
**2501355-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.14	0.200	mg/kg dry	1	BIC0410	03/07/25	04/15/25	EPA 6020B
Barium	52.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.27	0.400	"	"	"	"	"	"
Lead	9.03	0.200	"	"	"	"	"	"
Nickel	3.37	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.5	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	71.8	0.0500	"	"	"	"	"	"	
Sodium	497	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.0	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

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04/15/25 14:57

**20770-WH-02-E-5-20250123**  
**2501355-08 (Soil)**

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

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.973	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.2		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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**Reported:**  
04/15/25 14:57

**20770-WH-02-E-7-20250123**  
**2501355-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1432	01/30/25	02/07/25	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: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0359	89.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1434	01/30/25	02/06/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.7	93.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: UWRWEA1715ABN  
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**Reported:**  
04/15/25 14:57

**20770-WH-02-E-7-20250123**  
**2501355-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0016	02/03/25	02/09/25	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: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0149	44.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.7 %	40-140		"	"	"	"	

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

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1391	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM  
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Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-E-7-20250123**  
**2501355-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.563	0.200	mg/kg dry	1	BIC0410	03/07/25	04/15/25	EPA 6020B	
Barium	52.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.18	0.400	"	"	"	"	"	"	
Lead	3.82	0.200	"	"	"	"	"	"	
Nickel	1.92	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.67	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	193	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	102	0.0500	"	"	"	"	"	"	
Sodium	350	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.07	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

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Denver CO, 80202

Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-E-7-20250123**  
**2501355-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.250	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.4		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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**Reported:**  
04/15/25 14:57

**20770-WH-02-S-5-20250123**  
**2501355-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1432	01/30/25	02/07/25	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: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0354	88.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0364	90.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1434	01/30/25	02/06/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.70	77.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**20770-WH-02-S-5-20250123**  
**2501355-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0016	02/03/25	02/09/25	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: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0180	53.9 %	40-140		"	"	"	"	

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

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1391	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Reported:**  
04/15/25 14:57

**20770-WH-02-S-5-20250123**  
**2501355-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.589	0.200	mg/kg dry	1	BIC0410	03/07/25	04/15/25	EPA 6020B
Barium	51.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.13	0.400	"	"	"	"	"	"
Lead	3.23	0.200	"	"	"	"	"	"
Nickel	1.16	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.31	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	94.2	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	66.7	0.0500	"	"	"	"	"	"	
Sodium	245	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.72	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

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ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-S-5-20250123**  
**2501355-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.0		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.31	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.2		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-S-7-20250123**  
**2501355-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1432	01/30/25	02/06/25	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: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0209	52.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0362	90.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1434	01/30/25	02/06/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	84.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: UWRWEA1715ABN  
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**Reported:**  
04/15/25 14:57

**20770-WH-02-S-7-20250123**  
**2501355-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0016	02/03/25	02/20/25	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: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0157	47.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0146	43.7 %	40-140		"	"	"	"	

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

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1391	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-S-7-20250123**  
**2501355-11 (Soil)**

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**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.40	0.200	mg/kg dry	1	BIC0410	03/07/25	04/15/25	EPA 6020B
Barium	149	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.15	0.400	"	"	"	"	"	"
Lead	8.74	0.200	"	"	"	"	"	"
Nickel	3.05	0.400	"	"	"	"	"	"
Silver	0.0213	0.0200	"	"	"	"	"	"
Zinc	9.84	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.1	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	45.5	0.0500	"	"	"	"	"	"	
Sodium	390	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.64	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

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**20770-WH-02-S-7-20250123**  
**2501355-11 (Soil)**

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

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.57	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.9		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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04/15/25 14:57

**20770-WH-02-W-5-20250123**  
**2501355-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1432	01/30/25	02/06/25	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: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0200	50.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0373	93.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1434	01/30/25	02/06/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.2	89.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**20770-WH-02-W-5-20250123**  
**2501355-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0016	02/03/25	02/14/25	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: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0143	43.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0134	40.1 %	40-140		"	"	"	"	

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

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1391	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Reported:**  
04/15/25 14:57

**20770-WH-02-W-5-20250123**  
**2501355-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.705	0.200	mg/kg dry	1	BIC0410	03/07/25	04/15/25	EPA 6020B
Barium	66.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.42	0.400	"	"	"	"	"	"
Lead	4.23	0.200	"	"	"	"	"	"
Nickel	1.30	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	5.66	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.2	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	21.9	0.0500	"	"	"	"	"	"	
Sodium	197	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.71	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-W-5-20250123**  
**2501355-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BIB0444	02/10/25	02/10/25	Calculation	

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

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.77	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.8		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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**Reported:**  
04/15/25 14:57

**20770-WH-02-W-7-20250123**  
**2501355-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1432	01/30/25	02/06/25	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: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0206	51.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	96.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1434	01/30/25	02/06/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.6	84.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**Reported:**  
04/15/25 14:57

**20770-WH-02-W-7-20250123**  
**2501355-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0016	02/03/25	02/25/25	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: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.7 %	40-140		"	"	"	"	

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

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1391	02/25/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**20770-WH-02-W-7-20250123**  
**2501355-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.61	0.200	mg/kg dry	1	BIC0410	03/07/25	04/15/25	EPA 6020B
Barium	475	0.400	"	"	"	"	"	"
Cadmium	0.209	0.200	"	"	"	"	"	"
Copper	1.83	0.400	"	"	"	"	"	"
Lead	14.3	0.200	"	"	"	"	"	"
Nickel	3.46	0.400	"	"	"	"	"	"
Silver	0.0246	0.0200	"	"	"	"	"	"
Zinc	14.0	0.400	"	"	"	"	"	"
Selenium	0.350	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0407	02/08/25	02/08/25	EPA 7196A	

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

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	61.3	0.0500	mg/L dry	1	BIB0794	02/14/25	02/28/25	EPA 6020B	
Magnesium	69.5	0.0500	"	"	"	"	"	"	
Sodium	537	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.2	0.00100	units	1	BIC0001	03/01/25	03/01/25	Calculation	

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

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
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**Reported:**  
04/15/25 14:57

**20770-WH-02-W-7-20250123**  
**2501355-13 (Soil)**

**Summit Scientific**

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

% Solids	86.1	%	1	BIB0444	02/10/25	02/10/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.67	0.0100	mmhos/cm	1	BIB0796	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.2		pH Units	1	BIB0795	02/14/25	02/19/25	EPA 9045D	

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

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

#### Summit Scientific

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

#### Batch BIA1432 - EPA 5030 Soil MS

##### Blank (BIA1432-BLK1)

Prepared: 01/30/25 Analyzed: 02/06/25

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>	0.0389		"	0.0400		97.2		50-150		
<i>Surrogate: Toluene-d8</i>	0.0401		"	0.0400		100		50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0396		"	0.0400		99.0		50-150		

##### LCS (BIA1432-BS1)

Prepared: 01/30/25 Analyzed: 02/06/25

Benzene	0.100	0.0020	mg/kg	0.100	100	70-130				
Toluene	0.104	0.0050	"	0.100	104	70-130				
Ethylbenzene	0.105	0.0050	"	0.100	105	70-130				
m,p-Xylene	0.203	0.010	"	0.200	101	70-130				
o-Xylene	0.103	0.0050	"	0.100	103	70-130				
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	101	70-130				
1,3,5-Trimethylbenzene	0.0994	0.0050	"	0.100	99.4	70-130				
Naphthalene	0.102	0.0038	"	0.100	102	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0400		"	0.0400	100	50-150				
<i>Surrogate: Toluene-d8</i>	0.0400		"	0.0400	100	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0405		"	0.0400	101	50-150				

##### Matrix Spike (BIA1432-MS1)

Source: 2501320-21

Prepared: 01/30/25 Analyzed: 02/06/25

Benzene	0.0958	0.0020	mg/kg	0.100	ND	95.8	70-130			
Toluene	0.101	0.0050	"	0.100	ND	101	70-130			
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
m,p-Xylene	0.186	0.010	"	0.200	ND	92.9	70-130			
o-Xylene	0.0961	0.0050	"	0.100	ND	96.1	70-130			
1,2,4-Trimethylbenzene	0.0822	0.0050	"	0.100	ND	82.2	70-130			
1,3,5-Trimethylbenzene	0.0914	0.0050	"	0.100	ND	91.4	70-130			
Naphthalene	0.0705	0.0038	"	0.100	ND	70.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0404		"	0.0400		101	50-150			
<i>Surrogate: Toluene-d8</i>	0.0401		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0402		"	0.0400		100	50-150			

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**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 BIA1432 - EPA 5030 Soil MS**

Matrix Spike Dup (BIA1432-MSD1)	Source: 2501320-21			Prepared: 01/30/25 Analyzed: 02/06/25						
Benzene	0.0960	0.0020	mg/kg	0.100	ND	96.0	70-130	0.188	30	
Toluene	0.0988	0.0050	"	0.100	ND	98.8	70-130	1.72	30	
Ethylbenzene	0.0979	0.0050	"	0.100	ND	97.9	70-130	2.54	30	
m,p-Xylene	0.187	0.010	"	0.200	ND	93.6	70-130	0.788	30	
o-Xylene	0.0948	0.0050	"	0.100	ND	94.8	70-130	1.32	30	
1,2,4-Trimethylbenzene	0.0868	0.0050	"	0.100	ND	86.8	70-130	5.50	30	
1,3,5-Trimethylbenzene	0.0906	0.0050	"	0.100	ND	90.6	70-130	0.824	30	
Naphthalene	0.0820	0.0038	"	0.100	ND	82.0	70-130	15.1	30	
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

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Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**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 BIA1434 - EPA 3550A**

**Blank (BIA1434-BLK1)**

Prepared: 01/30/25 Analyzed: 02/05/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105		30-150			

**LCS (BIA1434-BS1)**

Prepared: 01/30/25 Analyzed: 02/05/25

C10-C28 (DRO)	398	50	mg/kg	500		79.7		70-130			
Surrogate: <i>o</i> -Terphenyl	10.2		"	12.5		81.8		30-150			

**Matrix Spike (BIA1434-MS1)**

Source: 2501320-21

Prepared: 01/30/25 Analyzed: 02/05/25

C10-C28 (DRO)	519	50	mg/kg	500	35.1	96.7		70-130			
Surrogate: <i>o</i> -Terphenyl	14.7		"	12.5		118		30-150			

**Matrix Spike Dup (BIA1434-MSD1)**

Source: 2501320-21

Prepared: 01/30/25 Analyzed: 02/05/25

C10-C28 (DRO)	535	50	mg/kg	500	35.1	100		70-130	3.15	20	
Surrogate: <i>o</i> -Terphenyl	14.4		"	12.5		115		30-150			

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**Reported:**  
04/15/25 14:57

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

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

**Batch BIB0016 - EPA 5030 Soil MS**

**Blank (BIB0016-BLK1)**

Prepared: 02/03/25 Analyzed: 02/08/25

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0169		"	0.0333		50.7	40-140			
Surrogate: Fluoranthene-d10	0.0187		"	0.0333		56.1	40-140			

**LCS (BIB0016-BS1)**

Prepared: 02/03/25 Analyzed: 02/08/25

Acenaphthene	0.0189	0.00500	mg/kg	0.0333		56.6	40-140			
Anthracene	0.0191	0.00500	"	0.0333		57.4	40-140			
Benzo (a) anthracene	0.0201	0.00500	"	0.0333		60.4	40-140			
Benzo (a) pyrene	0.0189	0.00500	"	0.0333		56.6	40-140			
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333		54.5	40-140			
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333		53.9	40-140			
Chrysene	0.0191	0.00500	"	0.0333		57.3	40-140			
Dibenz (a,h) anthracene	0.0241	0.00500	"	0.0333		72.3	40-140			
Fluoranthene	0.0204	0.00500	"	0.0333		61.3	40-140			
Fluorene	0.0184	0.00500	"	0.0333		55.2	40-140			
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333		75.4	40-140			
Pyrene	0.0190	0.00500	"	0.0333		57.1	40-140			
1-Methylnaphthalene	0.0176	0.00500	"	0.0333		52.8	40-140			
2-Methylnaphthalene	0.0177	0.00500	"	0.0333		53.1	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0182		"	0.0333		54.7	40-140			
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.7	40-140			

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

Reported:  
04/15/25 14:57

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 BIB0016 - EPA 5030 Soil MS

Matrix Spike (BIB0016-MS1)	Source: 2501355-06			Prepared: 02/03/25 Analyzed: 02/08/25	
Acenaphthene	0.0153	0.00500	mg/kg	0.0333	ND 45.9 40-140
Anthracene	0.0154	0.00500	"	0.0333	ND 46.3 40-140
Benzo (a) anthracene	0.0165	0.00500	"	0.0333	ND 49.6 40-140
Benzo (a) pyrene	0.0158	0.00500	"	0.0333	ND 47.4 40-140
Benzo (b) fluoranthene	0.0141	0.00500	"	0.0333	ND 42.4 40-140
Benzo (k) fluoranthene	0.0137	0.00500	"	0.0333	ND 41.0 40-140
Chrysene	0.0152	0.00500	"	0.0333	ND 45.6 40-140
Dibenz (a,h) anthracene	0.0203	0.00500	"	0.0333	ND 60.9 40-140
Fluoranthene	0.0147	0.00500	"	0.0333	ND 44.2 40-140
Fluorene	0.0149	0.00500	"	0.0333	ND 44.7 40-140
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	ND 62.0 40-140
Pyrene	0.0139	0.00500	"	0.0333	ND 41.6 40-140
1-Methylnaphthalene	0.0147	0.00500	"	0.0333	ND 44.0 40-140
2-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND 43.4 40-140
Surrogate: 2-Methylnaphthalene-d10	0.0147		"	0.0333	44.2 40-140
Surrogate: Fluoranthene-d10	0.0150		"	0.0333	45.1 40-140

Matrix Spike Dup (BIB0016-MSD1)	Source: 2501355-06			Prepared: 02/03/25 Analyzed: 02/08/25	
Acenaphthene	0.0186	0.00500	mg/kg	0.0333	ND 55.7 40-140 19.3 30
Anthracene	0.0184	0.00500	"	0.0333	ND 55.1 40-140 17.3 30
Benzo (a) anthracene	0.0191	0.00500	"	0.0333	ND 57.2 40-140 14.2 30
Benzo (a) pyrene	0.0184	0.00500	"	0.0333	ND 55.3 40-140 15.4 30
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND 53.4 40-140 23.1 30
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND 52.9 40-140 25.3 30
Chrysene	0.0183	0.00500	"	0.0333	ND 55.0 40-140 18.7 30
Dibenz (a,h) anthracene	0.0259	0.00500	"	0.0333	ND 77.8 40-140 24.4 30
Fluoranthene	0.0205	0.00500	"	0.0333	ND 61.4 40-140 32.5 30
Fluorene	0.0179	0.00500	"	0.0333	ND 53.7 40-140 18.2 30
Indeno (1,2,3-cd) pyrene	0.0259	0.00500	"	0.0333	ND 77.7 40-140 22.5 30
Pyrene	0.0178	0.00500	"	0.0333	ND 53.5 40-140 25.0 30
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND 51.1 40-140 15.0 30
2-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND 50.9 40-140 16.0 30
Surrogate: 2-Methylnaphthalene-d10	0.0175		"	0.0333	52.6 40-140
Surrogate: Fluoranthene-d10	0.0207		"	0.0333	62.0 40-140

QR-02

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**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 BIB1390 - EPA 3050B**

<b>Blank (BIB1390-BLK1)</b>				Prepared: 02/25/25 Analyzed: 03/11/25							
Boron	ND	2.00	mg/L								
<b>LCS (BIB1390-BS1)</b>				Prepared: 02/25/25 Analyzed: 03/11/25							
Boron	4.88	2.00	mg/L	5.00		97.6	80-120				
<b>Duplicate (BIB1390-DUP1)</b>				<b>Source: 2501349-01</b>		Prepared: 02/25/25 Analyzed: 03/11/25					
Boron	ND	2.00	mg/L		ND					20	
<b>Matrix Spike (BIB1390-MS1)</b>				<b>Source: 2501349-01</b>		Prepared: 02/25/25 Analyzed: 03/11/25					
Boron	5.13	2.00	mg/L	5.00	ND	103	75-125				
<b>Matrix Spike Dup (BIB1390-MSD1)</b>				<b>Source: 2501349-01</b>		Prepared: 02/25/25 Analyzed: 03/11/25					
Boron	5.20	2.00	mg/L	5.00	ND	104	75-125	1.37		25	

**Batch BIB1391 - EPA 3050B**

<b>Blank (BIB1391-BLK1)</b>				Prepared: 02/25/25 Analyzed: 03/11/25							
Boron	ND	2.00	mg/L								
<b>LCS (BIB1391-BS1)</b>				Prepared: 02/25/25 Analyzed: 03/11/25							
Boron	4.87	2.00	mg/L	5.00		97.4	80-120				
<b>Duplicate (BIB1391-DUP1)</b>				<b>Source: 2501355-07</b>		Prepared: 02/25/25 Analyzed: 03/11/25					
Boron	0.0835	2.00	mg/L		0.103			21.4		20	QR-01
<b>Matrix Spike (BIB1391-MS1)</b>				<b>Source: 2501355-07</b>		Prepared: 02/25/25 Analyzed: 03/11/25					
Boron	5.26	2.00	mg/L	5.00	0.103	103	75-125				

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**Reported:**  
04/15/25 14:57

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

**Summit Scientific**

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

**Batch BIB1391 - EPA 3050B**

**Matrix Spike Dup (BIB1391-MSD1)**

**Source: 2501355-07**

Prepared: 02/25/25 Analyzed: 03/11/25

Boron	5.27	2.00	mg/L	5.00	0.103	103	75-125	0.201	25	
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**Reported:**  
04/15/25 14:57

**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 BIC0410 - EPA 3050B**

**Blank (BIC0410-BLK1)**

Prepared: 03/07/25 Analyzed: 04/14/25

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 (BIC0410-BS1)**

Prepared: 03/07/25 Analyzed: 04/14/25

Arsenic	42.9	0.200	mg/kg wet	41.7	103	80-120
Barium	42.7	0.400	"	41.7	102	80-120
Cadmium	2.09	0.200	"	2.08	100	80-120
Copper	42.5	0.400	"	41.7	102	80-120
Lead	20.8	0.200	"	20.8	99.6	80-120
Nickel	42.1	0.400	"	41.7	101	80-120
Silver	2.08	0.0200	"	2.08	100	80-120
Zinc	40.6	0.400	"	41.7	97.3	80-120
Selenium	5.01	0.260	"	4.17	120	80-120

**Duplicate (BIC0410-DUP1)**

Source: 2501351-01

Prepared: 03/07/25 Analyzed: 04/14/25

Arsenic	0.362	0.200	mg/kg dry	0.428	16.7	20	
Barium	30.4	0.400	"	40.1	27.4	20	QR-04
Cadmium	0.124	0.200	"	0.143	14.2	20	
Copper	1.06	0.400	"	1.38	26.6	20	QR-04
Lead	4.03	0.200	"	5.25	26.3	20	QR-04
Nickel	0.639	0.400	"	0.874	31.0	20	QR-04
Silver	0.0367	0.0200	"	0.0495	29.6	20	QR-04
Zinc	4.59	0.400	"	6.07	27.9	20	QR-04
Selenium	ND	0.260	"	ND		20	

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ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**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 BIC0410 - EPA 3050B**

**Matrix Spike (BIC0410-MS1)**

Source: 2501351-01

Prepared: 03/07/25 Analyzed: 04/14/25

Arsenic	18.4	0.200	mg/kg dry	42.3	0.428	42.4	75-125				QM-05
Barium	64.8	0.400	"	42.3	40.1	58.5	75-125				QM-05
Cadmium	2.19	0.200	"	2.11	0.143	96.7	75-125				
Copper	19.2	0.400	"	42.3	1.38	42.2	75-125				QM-05
Lead	22.9	0.200	"	21.1	5.25	83.6	75-125				
Nickel	18.8	0.400	"	42.3	0.874	42.4	75-125				QM-05
Silver	2.09	0.0200	"	2.11	0.0495	96.7	75-125				
Zinc	22.7	0.400	"	42.3	6.07	39.4	75-125				QM-05
Selenium	4.72	0.260	"	4.23	ND	112	75-125				

**Matrix Spike Dup (BIC0410-MSD1)**

Source: 2501351-01

Prepared: 03/07/25 Analyzed: 04/14/25

Arsenic	12.6	0.200	mg/kg dry	42.6	0.428	28.7	75-125	36.8	25		QM-05
Barium	86.0	0.400	"	42.6	40.1	108	75-125	28.1	25		QM-05
Cadmium	2.16	0.200	"	2.13	0.143	94.7	75-125	1.20	25		
Copper	13.8	0.400	"	42.6	1.38	29.1	75-125	32.9	25		QM-05
Lead	24.3	0.200	"	21.3	5.25	89.3	75-125	5.83	25		
Nickel	13.2	0.400	"	42.6	0.874	29.0	75-125	34.8	25		QM-05
Silver	2.01	0.0200	"	2.13	0.0495	91.7	75-125	4.35	25		
Zinc	18.9	0.400	"	42.6	6.07	30.0	75-125	18.6	25		QM-05
Selenium	4.48	0.260	"	4.26	ND	105	75-125	5.29	25		

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Project: Chevron RBU - Baker State B #36-12  
Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

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

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

**Batch BIB0407 - 3060A Mod**

**Blank (BIB0407-BLK1)**

Prepared & Analyzed: 02/08/25

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BIB0407-BS1)**

Prepared & Analyzed: 02/08/25

Chromium, Hexavalent      23.6      0.30    mg/kg wet      25.0      94.2      80-120

**Duplicate (BIB0407-DUP1)**

**Source: 2501355-01**

Prepared & Analyzed: 02/08/25

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      ND      20

**Matrix Spike (BIB0407-MS1)**

**Source: 2501355-01**

Prepared & Analyzed: 02/08/25

Chromium, Hexavalent      26.0      0.30    mg/kg dry      28.0      ND      93.0      75-125

**Matrix Spike Dup (BIB0407-MSD1)**

**Source: 2501355-01**

Prepared & Analyzed: 02/08/25

Chromium, Hexavalent      25.8      0.30    mg/kg dry      28.0      ND      92.0      75-125      1.08      20

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**Reported:**  
04/15/25 14:57

**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 BIB0794 - General Preparation**

**Blank (BIB0794-BLK1)**

Prepared: 02/14/25 Analyzed: 02/28/25

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

**LCS (BIB0794-BS1)**

Prepared: 02/14/25 Analyzed: 02/28/25

Calcium	4.98	0.0500	mg/L wet	5.00	99.5	70-130
Magnesium	5.42	0.0500	"	5.00	108	70-130
Sodium	4.96	0.0500	"	5.00	99.2	70-130

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**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 BIB0444 - General Preparation**

**Duplicate (BIB0444-DUP1)**

**Source: 2501345-01**

Prepared & Analyzed: 02/10/25

% Solids	84.6		%		83.2			1.66	20	
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Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**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 BIB0796 - General Preparation**

**Blank (BIB0796-BLK1)**

Prepared: 02/14/25 Analyzed: 02/19/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BIB0796-BS1)**

Prepared: 02/14/25 Analyzed: 02/19/25

Specific Conductance (EC) 1.38 0.0100 mmhos/cm 1.41 97.7 95-105

**Duplicate (BIB0796-DUP1)**

**Source: 2501355-01**

Prepared: 02/14/25 Analyzed: 02/19/25

Specific Conductance (EC) 1.91 0.0100 mmhos/cm 1.92 0.645 20

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Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

**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 BIB0795 - General Preparation**

**LCS (BIB0795-BS1)**

Prepared: 02/14/25 Analyzed: 02/19/25

pH	9.06	pH Units	9.18	98.7	95-105
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**Duplicate (BIB0795-DUP1)**

Source: 2501355-01

Prepared: 02/14/25 Analyzed: 02/19/25

pH	8.03	pH Units	8.02	0.0661	20
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Summit Scientific

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ERM  
555 17th St  
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Project: Chevron RBU - Baker State B #36-12

Project Number: UWRWEA1715ABN  
Project Manager: Justin Onwiler

**Reported:**  
04/15/25 14:57

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- 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 below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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