

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

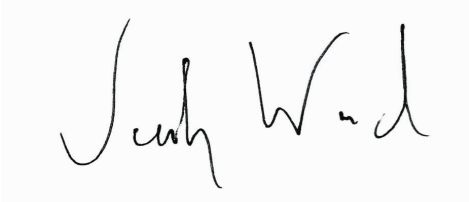
April 23, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Chevron - Howard USX A09-13 Flowline  
Work Order #2403132

Enclosed are the results of analyses for samples received by Summit Scientific on 03/07/24 17:42. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 2FT	2403132-01	Soil	03/07/24 13:05	03/07/24 17:42
FL02 2FT	2403132-02	Soil	03/07/24 13:10	03/07/24 17:42
FL03 2FT	2403132-03	Soil	03/07/24 13:15	03/07/24 17:42
FL04 2FT	2403132-04	Soil	03/07/24 13:20	03/07/24 17:42
FL05 2FT	2403132-05	Soil	03/07/24 13:25	03/07/24 17:42
BKG04@0.5'	2403132-06	Soil	03/07/24 13:30	03/07/24 17:42
BKG04@2'	2403132-07	Soil	03/07/24 13:35	03/07/24 17:42
BKG04@5'	2403132-08	Soil	03/07/24 13:40	03/07/24 17:42
BKG05@0.5'	2403132-09	Soil	03/07/24 13:45	03/07/24 17:42
BKG05@2'	2403132-10	Soil	03/07/24 13:50	03/07/24 17:42
BKG05@5'	2403132-11	Soil	03/07/24 13:55	03/07/24 17:42

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2403132	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: <u>Chalon</u>	
Address: 8305 6th Street	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#: <u>OWRWE-A3602-ABN</u>	
Phone: 603-477-6907	Project Name: <u>Howard USX A09-13 Flowline</u>	PO/Billing Codes:	
Sampler Name: Aaron Otilar	Project Number:	Contact: <u>MIKE MONTOYA</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	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)		SAR, EC, pH, Boron
1	FLO1 2Ft	3/7/24	1305	2			X			X			X	X	X	X	X		
2	FLO2 2Ft		1310																
3	FLO3 2Ft		1315																
4	FLO4 2Ft		1320																
5	FLO5 2Ft		1325																
6	BK04 eo.5'		1330	1											X	X			
7	BK04 02'		1335																
8	BK04 05'		1340																
9	BK05 eo.5'		1345																
10	BK05 02'		1350																
11	BK05 05'		1355																
12																			
13																			
14																			
15																			

Relinquished by: <u>Aaron Otilar</u>	Date/Time: <u>3/7/24 1620</u>	Received by: <u>Summit North Office</u>	Date/Time: <u>3/7/24 1620</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>3/24 1645</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/24 1645</u>	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>11.1</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2403132

Client: Fremont

Client Project ID: Howard USX Am-13 flowline

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

-

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

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

11.1

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			
If custody seals are present, are they intact? <sup>(1)</sup>	-			awful
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		-		
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>	✓			
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>		✓		no sample times, not all jars had "FL"
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	"
Are samples preserved that require preservation (excluding cooling)? <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?			✓	
Additional Comments (if any):				

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

AS

Custodian Printed Name

3/7/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL01 2FT**  
**2403132-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0279	03/11/24	03/12/24	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: **03/07/24 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0318	79.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0282	03/11/24	03/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	4.87	38.9 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**FL01 2FT**  
**2403132-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0324	03/12/24	03/13/24	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: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0169	50.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.5 %	40-150		"	"	"	"	

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

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL01 2FT**  
**2403132-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	15.3	0.200	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
Barium	55.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.90	0.400	"	"	"	"	"	"	
Lead	10.1	0.200	"	"	"	"	"	"	
Nickel	4.16	0.400	"	"	"	"	"	"	
Silver	0.0269	0.0200	"	"	"	"	"	"	
Zinc	24.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.8	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	7.18	0.0500	"	"	"	"	"	"	
Sodium	15.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.608	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

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Fremont Environmental  
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 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**FL01 2FT**  
**2403132-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHC0432	03/15/24	03/16/24	Calculation	

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

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.818	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL02 2FT**  
**2403132-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0279	03/11/24	03/12/24	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	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.021</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0314	78.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0282	03/11/24	03/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	4.54	36.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL02 2FT**  
**2403132-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0151	0.00500	mg/kg	1	BHC0324	03/12/24	03/13/24	EPA 8270D SIM	
Anthracene	0.0198	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0269	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0160	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0211	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00764	0.00500	"	"	"	"	"	"	
Chrysene	0.0237	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0678	0.00500	"	"	"	"	"	"	
Fluorene	0.0166	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0304	0.00500	"	"	"	"	"	"	
Pyrene	0.101	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	44.9 %	40-150		"	"	"	"	

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

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	23.0	0.200	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL02 2FT**  
**2403132-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	45.7	0.400	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.51	0.400	"	"	"	"	"	"	
Lead	7.83	0.200	"	"	"	"	"	"	
Nickel	3.04	0.400	"	"	"	"	"	"	
Silver	0.0224	0.0200	"	"	"	"	"	"	
Zinc	21.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.3	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	37.9	0.0500	"	"	"	"	"	"	
Sodium	77.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.98	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**FL02 2FT**  
**2403132-02 (Soil)**

**Summit Scientific**

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

% Solids	89.1	%	1	BHC0432	03/15/24	03/16/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/07/24 13:10**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.02	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**FL03 2FT**  
**2403132-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0279	03/11/24	03/12/24	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: **03/07/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0338	84.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0282	03/11/24	03/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.26	42.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL03 2FT**  
**2403132-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0324	03/12/24	03/13/24	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: **03/07/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0211	63.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0143	42.9 %	40-150		"	"	"	"	

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

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL03 2FT**  
**2403132-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.65	0.200	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
Barium	63.5	0.400	"	"	"	"	"	"	
Cadmium	0.319	0.200	"	"	"	"	"	"	
Copper	10.3	0.400	"	"	"	"	"	"	
Lead	19.2	0.200	"	"	"	"	"	"	
Nickel	4.81	0.400	"	"	"	"	"	"	
Silver	0.0828	0.0200	"	"	"	"	"	"	
Zinc	30.5	0.400	"	"	"	"	"	"	
Selenium	0.305	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	79.3	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	168	0.0500	"	"	"	"	"	"	
Sodium	473	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.90	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**FL03 2FT**  
**2403132-03 (Soil)**

**Summit Scientific**

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

% Solids	88.4	%	1	BHC0432	03/15/24	03/16/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/07/24 13:15**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.12	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.46		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Fremont Environmental  
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Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL04 2FT**  
**2403132-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0279	03/11/24	03/12/24	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: **03/07/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0318	79.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0282	03/11/24	03/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	4.54	36.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL04 2FT**  
**2403132-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0324	03/12/24	03/13/24	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	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.00755</b>	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0149</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0218	65.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0148	44.3 %	40-150		"	"	"	"	

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

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL04 2FT**  
**2403132-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.35	0.200	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B
Barium	60.6	0.400	"	"	"	"	"	"
Cadmium	0.259	0.200	"	"	"	"	"	"
Copper	6.15	0.400	"	"	"	"	"	"
Lead	11.5	0.200	"	"	"	"	"	"
Nickel	6.36	0.400	"	"	"	"	"	"
Silver	0.0328	0.0200	"	"	"	"	"	"
Zinc	29.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	84.6	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	59.3	0.0500	"	"	"	"	"	"	
Sodium	87.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.77	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**FL04 2FT**  
**2403132-04 (Soil)**

**Summit Scientific**

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

% Solids	92.7	%	1	BHC0432	03/15/24	03/16/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/07/24 13:20**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.206	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**FL05 2FT**  
**2403132-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHC0279	03/11/24	03/12/24	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: **03/07/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0345	86.2 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0282	03/11/24	03/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	7.78	62.2 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**FL05 2FT**  
**2403132-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0324	03/12/24	03/13/24	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: **03/07/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.6 %	40-150		"	"	"	"	

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

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**FL05 2FT**  
**2403132-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.72	0.200	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
Barium	94.0	0.400	"	"	"	"	"	"	
Cadmium	0.266	0.200	"	"	"	"	"	"	
Copper	5.92	0.400	"	"	"	"	"	"	
Lead	8.52	0.200	"	"	"	"	"	"	
Nickel	6.69	0.400	"	"	"	"	"	"	
Silver	0.0393	0.0200	"	"	"	"	"	"	
Zinc	23.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.1	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	9.80	0.0500	"	"	"	"	"	"	
Sodium	24.9	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.830	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**FL05 2FT**  
**2403132-05 (Soil)**

**Summit Scientific**

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

% Solids	85.6	%	1	BHC0432	03/15/24	03/16/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/07/24 13:25**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.603</b>	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.70</b>		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**BKG04@0.5'**  
**2403132-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.48	0.200	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
Barium	71.2	0.400	"	"	"	"	"	"	
Cadmium	0.308	0.200	"	"	"	"	"	"	
Copper	17.4	0.400	"	"	"	"	"	"	
Lead	11.5	0.200	"	"	"	"	"	"	
Nickel	6.80	0.400	"	"	"	"	"	"	
Silver	0.0526	0.0200	"	"	"	"	"	"	
Zinc	39.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	75.1	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	16.8	0.0500	"	"	"	"	"	"	
Sodium	47.6	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
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Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**BKG04@0.5'**  
**2403132-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/07/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.29	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BHC0432	03/15/24	03/16/24	Calculation	

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

Date Sampled: **03/07/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.442	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**BKG04@2'**  
**2403132-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	7.49	0.200		mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
Barium	31.0	0.400		"	"	"	"	"	"	
Cadmium	0.294	0.200		"	"	"	"	"	"	
Copper	6.62	0.400		"	"	"	"	"	"	
Lead	11.5	0.200		"	"	"	"	"	"	
Nickel	8.89	0.400		"	"	"	"	"	"	
Silver	0.0323	0.0200		"	"	"	"	"	"	
Zinc	34.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	21.3	0.0500		mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	15.7	0.0500		"	"	"	"	"	"	
Sodium	61.4	0.0500		"	"	"	"	"	"	

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**BKG04@2'**  
**2403132-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/07/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.46	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.3		%	1	BHC0432	03/15/24	03/16/24	Calculation	

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

Date Sampled: **03/07/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.847	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**BKG04@5'**  
**2403132-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.90</b>	0.200	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
<b>Barium</b>	<b>24.0</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>5.07</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>6.51</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>4.95</b>	0.400	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0225</b>	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>29.2</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>47.9</b>	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
<b>Magnesium</b>	<b>52.1</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>61.4</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**BKG04@5'**  
**2403132-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/07/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.46	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BHC0432	03/15/24	03/16/24	Calculation	

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

Date Sampled: **03/07/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.544	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**BKG05@0.5'**  
**2403132-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>5.35</b>	0.200		mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
Barium	<b>80.7</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.329</b>	0.200		"	"	"	"	"	"	
Copper	<b>16.4</b>	0.400		"	"	"	"	"	"	
Lead	<b>11.6</b>	0.200		"	"	"	"	"	"	
Nickel	<b>7.19</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0538</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>40.3</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>97.9</b>	0.0500		mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	<b>23.4</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>58.0</b>	0.0500		"	"	"	"	"	"	

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**BKG05@0.5'**  
**2403132-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/07/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.37	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BHC0432	03/15/24	03/16/24	Calculation	

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

Date Sampled: **03/07/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.582	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Fremont Environmental  
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Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**BKG05@2'**  
**2403132-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	8.28	0.200	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
Barium	33.0	0.400	"	"	"	"	"	"	
Cadmium	0.279	0.200	"	"	"	"	"	"	
Copper	7.39	0.400	"	"	"	"	"	"	
Lead	10.4	0.200	"	"	"	"	"	"	
Nickel	6.03	0.400	"	"	"	"	"	"	
Silver	0.0355	0.0200	"	"	"	"	"	"	
Zinc	33.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	26.9	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	23.0	0.0500	"	"	"	"	"	"	
Sodium	78.9	0.0500	"	"	"	"	"	"	

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 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**BKG05@2'**  
**2403132-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/07/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.70	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.8		%	1	BHC0432	03/15/24	03/16/24	Calculation	

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

Date Sampled: **03/07/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.564	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**BKG05@5'**  
**2403132-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/07/24 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0511	03/15/24	04/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/07/24 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.95	0.200	mg/kg dry	1	BHC0681	03/19/24	03/25/24	EPA 6020B	
Barium	37.8	0.400	"	"	"	"	"	"	
Cadmium	0.209	0.200	"	"	"	"	"	"	
Copper	5.02	0.400	"	"	"	"	"	"	
Lead	10.2	0.200	"	"	"	"	"	"	
Nickel	5.99	0.400	"	"	"	"	"	"	
Silver	0.0244	0.0200	"	"	"	"	"	"	
Zinc	31.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/07/24 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0612	03/18/24	03/28/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	34.8	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	38.9	0.0500	"	"	"	"	"	"	
Sodium	52.2	0.0500	"	"	"	"	"	"	

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Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**BKG05@5'**  
**2403132-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/07/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.45	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

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

Date Sampled: **03/07/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHC0432	03/15/24	03/16/24	Calculation	

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

Date Sampled: **03/07/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.670	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

### 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 BHC0279 - EPA 5030 Soil MS

##### Blank (BHC0279-BLK1)

Prepared & Analyzed: 03/11/24

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>	0.0393		"	0.0400		98.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		97.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400		"	0.0400		100	50-150			

##### LCS (BHC0279-BS1)

Prepared & Analyzed: 03/11/24

Benzene	0.110	0.0020	mg/kg	0.100		110	70-130			
Toluene	0.125	0.0050	"	0.100		125	70-130			
Ethylbenzene	0.127	0.0050	"	0.100		127	70-130			
m,p-Xylene	0.254	0.010	"	0.200		127	70-130			
o-Xylene	0.122	0.0050	"	0.100		122	70-130			
1,2,4-Trimethylbenzene	0.119	0.0050	"	0.100		119	70-130			
1,3,5-Trimethylbenzene	0.120	0.0050	"	0.100		120	70-130			
Naphthalene	0.119	0.0038	"	0.100		119	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0373		"	0.0400		93.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		98.1	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0402		"	0.0400		100	50-150			

##### Matrix Spike (BHC0279-MS1)

Source: 2402113-13

Prepared & Analyzed: 03/11/24

Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130			
Toluene	0.117	0.0050	"	0.100	ND	117	70-130			
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130			
m,p-Xylene	0.230	0.010	"	0.200	ND	115	70-130			
o-Xylene	0.111	0.0050	"	0.100	ND	111	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0366		"	0.0400		91.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.5	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0404		"	0.0400		101	50-150			

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Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**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 BHC0279 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BHC0279-MSD1)</b>	<b>Source: 2402113-13</b>			<b>Prepared &amp; Analyzed: 03/11/24</b>						
Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130	5.18	30	
Toluene	0.125	0.0050	"	0.100	ND	125	70-130	6.36	30	
Ethylbenzene	0.132	0.0050	"	0.100	ND	132	70-130	11.9	30	QM-07
m,p-Xylene	0.256	0.010	"	0.200	ND	128	70-130	10.6	30	
o-Xylene	0.123	0.0050	"	0.100	ND	123	70-130	9.75	30	
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	7.68	30	
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	9.60	30	
Naphthalene	0.108	0.0038	"	0.100	ND	108	70-130	3.38	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.0</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**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 BHC0282 - EPA 3550A**

**Blank (BHC0282-BLK1)**

Prepared: 03/11/24 Analyzed: 03/12/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	7.04		"	12.5		56.3		30-150			

**LCS (BHC0282-BS1)**

Prepared: 03/11/24 Analyzed: 03/12/24

C10-C28 (DRO)	379	50	mg/kg	500		75.9		70-130			
Surrogate: <i>o</i> -Terphenyl	7.48		"	12.5		59.8		30-150			

**Matrix Spike (BHC0282-MS1)**

Source: 2402113-13

Prepared: 03/11/24 Analyzed: 03/12/24

C10-C28 (DRO)	367	50	mg/kg	500	9.85	71.4		70-130			
Surrogate: <i>o</i> -Terphenyl	4.74		"	12.5		37.9		30-150			

**Matrix Spike Dup (BHC0282-MSD1)**

Source: 2402113-13

Prepared: 03/11/24 Analyzed: 03/12/24

C10-C28 (DRO)	383	50	mg/kg	500	9.85	74.5		70-130	4.23	20	
Surrogate: <i>o</i> -Terphenyl	4.93		"	12.5		39.4		30-150			

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Project: Chevron - Howard USX A09-13 Flowline  
Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**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 BHC0324 - EPA 5030 Soil MS**

**Blank (BHC0324-BLK1)**

Prepared: 03/12/24 Analyzed: 03/13/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0415</i>		"	<i>0.0333</i>		<i>125</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0211</i>		"	<i>0.0333</i>		<i>63.3</i>		<i>40-150</i>		

**LCS (BHC0324-BS1)**

Prepared: 03/12/24 Analyzed: 03/13/24

Acenaphthene	0.0277	0.00500	mg/kg	0.0333	83.1	31-137
Anthracene	0.0284	0.00500	"	0.0333	85.2	30-120
Benzo (a) anthracene	0.0264	0.00500	"	0.0333	79.1	30-120
Benzo (a) pyrene	0.0255	0.00500	"	0.0333	76.4	30-120
Benzo (b) fluoranthene	0.0209	0.00500	"	0.0333	62.8	30-120
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	68.1	30-120
Chrysene	0.0294	0.00500	"	0.0333	88.3	30-120
Dibenz (a,h) anthracene	0.0383	0.00500	"	0.0333	115	30-120
Fluoranthene	0.0240	0.00500	"	0.0333	72.0	30-120
Fluorene	0.0271	0.00500	"	0.0333	81.4	30-120
Indeno (1,2,3-cd) pyrene	0.0338	0.00500	"	0.0333	102	30-120
Pyrene	0.0378	0.00500	"	0.0333	113	35-142
1-Methylnaphthalene	0.0414	0.00500	"	0.0333	124	35-142
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	52.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0362</i>		"	<i>0.0333</i>	<i>109</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0243</i>		"	<i>0.0333</i>	<i>73.0</i>	<i>40-150</i>

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Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

**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 BHC0324 - EPA 5030 Soil MS**

<b>Matrix Spike (BHC0324-MS1)</b>	<b>Source: 2403132-01</b>			<b>Prepared: 03/12/24 Analyzed: 03/13/24</b>						
Acenaphthene	0.0155	0.00500	mg/kg	0.0333	ND	46.4	31-137			
Anthracene	0.0150	0.00500	"	0.0333	ND	45.0	30-120			
Benzo (a) anthracene	0.0147	0.00500	"	0.0333	ND	44.0	30-120			
Benzo (a) pyrene	0.0224	0.00500	"	0.0333	ND	67.2	30-120			
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.4	30-120			
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.1	30-120			
Chrysene	0.0159	0.00500	"	0.0333	ND	47.6	30-120			
Dibenz (a,h) anthracene	0.0342	0.00500	"	0.0333	ND	103	30-120			
Fluoranthene	0.0137	0.00500	"	0.0333	ND	41.0	30-120			
Fluorene	0.0154	0.00500	"	0.0333	ND	46.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0382	0.00500	"	0.0333	ND	114	30-120			
Pyrene	0.0271	0.00500	"	0.0333	ND	81.2	35-142			
1-Methylnaphthalene	0.0276	0.00500	"	0.0333	ND	82.9	15-130			
2-Methylnaphthalene	0.0306	0.00500	"	0.0333	ND	91.8	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0212</i>		<i>"</i>	<i>0.0333</i>		<i>63.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0140</i>		<i>"</i>	<i>0.0333</i>		<i>42.1</i>	<i>40-150</i>			

<b>Matrix Spike Dup (BHC0324-MSD1)</b>	<b>Source: 2403132-01</b>			<b>Prepared: 03/12/24 Analyzed: 03/13/24</b>						
Acenaphthene	0.0171	0.00500	mg/kg	0.0333	ND	51.3	31-137	10.1	30	
Anthracene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	4.22	30	
Benzo (a) anthracene	0.0185	0.00500	"	0.0333	ND	55.4	30-120	22.9	30	
Benzo (a) pyrene	0.0246	0.00500	"	0.0333	ND	73.9	30-120	9.53	30	
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.5	30-120	15.7	30	
Benzo (k) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	16.8	30	
Chrysene	0.0143	0.00500	"	0.0333	ND	42.9	30-120	10.3	30	
Dibenz (a,h) anthracene	0.0357	0.00500	"	0.0333	ND	107	30-120	4.07	30	
Fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	19.0	30	
Fluorene	0.0134	0.00500	"	0.0333	ND	40.2	30-120	14.2	30	
Indeno (1,2,3-cd) pyrene	0.0334	0.00500	"	0.0333	ND	100	30-120	13.3	30	
Pyrene	0.0243	0.00500	"	0.0333	ND	73.0	35-142	10.6	30	
1-Methylnaphthalene	0.0250	0.00500	"	0.0333	ND	75.0	15-130	9.99	50	
2-Methylnaphthalene	0.0249	0.00500	"	0.0333	ND	74.7	15-130	20.6	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0189</i>		<i>"</i>	<i>0.0333</i>		<i>56.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0133</i>		<i>"</i>	<i>0.0333</i>		<i>40.0</i>	<i>40-150</i>			

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Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**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 BHC0511 - EPA 3050B**

**Blank (BHC0511-BLK1)**

Prepared: 03/15/24 Analyzed: 04/05/24

Boron ND 2.00 mg/L

**LCS (BHC0511-BS1)**

Prepared: 03/15/24 Analyzed: 04/05/24

Boron 4.78 2.00 mg/L 5.00 95.6 80-120

**Duplicate (BHC0511-DUP1)**

**Source: 2403132-01**

Prepared: 03/15/24 Analyzed: 04/05/24

Boron 0.146 2.00 mg/L 0.114 24.2 20 QR-01

**Matrix Spike (BHC0511-MS1)**

**Source: 2403132-01**

Prepared: 03/15/24 Analyzed: 04/05/24

Boron 4.93 2.00 mg/L 5.00 0.114 96.3 75-125

**Matrix Spike Dup (BHC0511-MSD1)**

**Source: 2403132-01**

Prepared: 03/15/24 Analyzed: 04/05/24

Boron 5.02 2.00 mg/L 5.00 0.114 98.1 75-125 1.73 25

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Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/23/24 15:00

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

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

**Batch BHC0681 - EPA 3050B**

**Blank (BHC0681-BLK1)**

Prepared: 03/19/24 Analyzed: 03/25/24

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 (BHC0681-BS1)**

Prepared: 03/19/24 Analyzed: 03/25/24

Arsenic	37.2	0.200	mg/kg wet	40.0	93.1	80-120				
Barium	38.7	0.400	"	40.0	96.8	80-120				
Cadmium	2.04	0.200	"	2.00	102	80-120				
Copper	43.0	0.400	"	40.0	108	80-120				
Lead	19.7	0.200	"	20.0	98.5	80-120				
Nickel	42.4	0.400	"	40.0	106	80-120				
Silver	1.98	0.0200	"	2.00	98.8	80-120				
Zinc	42.9	0.400	"	40.0	107	80-120				
Selenium	3.47	0.260	"	4.00	86.8	80-120				

**Duplicate (BHC0681-DUP1)**

Source: 2403132-01

Prepared: 03/19/24 Analyzed: 03/25/24

Arsenic	15.2	0.200	mg/kg dry	15.3	0.955	20				
Barium	54.6	0.400	"	55.9	2.37	20				
Cadmium	0.266	0.200	"	0.170	43.9	20				QR-04
Copper	3.85	0.400	"	4.90	23.8	20				QR-04
Lead	8.65	0.200	"	10.1	15.4	20				
Nickel	3.75	0.400	"	4.16	10.5	20				
Silver	0.0242	0.0200	"	0.0269	10.5	20				
Zinc	19.2	0.400	"	24.5	24.4	20				QR-04
Selenium	ND	0.260	"	ND		20				

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**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 BHC0681 - EPA 3050B**

<b>Matrix Spike (BHC0681-MS1)</b>	<b>Source: 2403132-01</b>			<b>Prepared: 03/19/24 Analyzed: 03/25/24</b>								
Arsenic	54.8	0.200	mg/kg dry	44.8	15.3	88.0	75-125					
Barium	90.8	0.400	"	44.8	55.9	77.8	75-125					
Cadmium	2.37	0.200	"	2.24	0.170	98.1	75-125					
Copper	32.9	0.400	"	44.8	4.90	62.5	75-125					QM-07
Lead	29.8	0.200	"	22.4	10.1	87.9	75-125					
Nickel	32.3	0.400	"	44.8	4.16	62.8	75-125					QM-07
Silver	2.18	0.0200	"	2.24	0.0269	96.0	75-125					
Zinc	50.1	0.400	"	44.8	24.5	57.2	75-125					QM-07
Selenium	3.24	0.260	"	4.48	ND	72.3	75-125					QM-07

<b>Matrix Spike Dup (BHC0681-MSD1)</b>	<b>Source: 2403132-01</b>			<b>Prepared: 03/19/24 Analyzed: 03/25/24</b>								
Arsenic	54.3	0.200	mg/kg dry	44.8	15.3	86.8	75-125	0.955	25			
Barium	91.7	0.400	"	44.8	55.9	79.9	75-125	1.03	25			
Cadmium	2.39	0.200	"	2.24	0.170	99.1	75-125	0.979	25			
Copper	34.0	0.400	"	44.8	4.90	64.8	75-125	3.10	25			QM-07
Lead	30.0	0.200	"	22.4	10.1	88.8	75-125	0.685	25			
Nickel	33.4	0.400	"	44.8	4.16	65.3	75-125	3.37	25			QM-07
Silver	2.19	0.0200	"	2.24	0.0269	96.5	75-125	0.493	25			
Zinc	51.5	0.400	"	44.8	24.5	60.3	75-125	2.79	25			QM-07
Selenium	3.18	0.260	"	4.48	ND	71.0	75-125	1.86	25			QM-07

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 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

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

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

**Batch BHC0612 - 3060A Mod**

**Blank (BHC0612-BLK1)**

Prepared: 03/18/24 Analyzed: 03/28/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHC0612-BS1)**

Prepared: 03/18/24 Analyzed: 03/28/24

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.4 80-120

**Duplicate (BHC0612-DUP1)**

**Source: 2403132-01**

Prepared: 03/18/24 Analyzed: 03/28/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHC0612-MS1)**

**Source: 2403132-01**

Prepared: 03/18/24 Analyzed: 03/28/24

Chromium, Hexavalent 28.6 0.30 mg/kg dry 28.0 ND 102 75-125

**Matrix Spike Dup (BHC0612-MSD1)**

**Source: 2403132-01**

Prepared: 03/18/24 Analyzed: 03/28/24

Chromium, Hexavalent 28.6 0.30 mg/kg dry 28.0 ND 102 75-125 0.196 20

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Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

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

**Summit Scientific**

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

**Batch BHC0843 - General Preparation**

**Blank (BHC0843-BLK1)**

Prepared: 03/21/24 Analyzed: 04/22/24

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

**LCS (BHC0843-BS1)**

Prepared: 03/21/24 Analyzed: 04/22/24

Calcium	5.79	0.0500	mg/L wet	5.00	116	70-130
Magnesium	4.98	0.0500	"	5.00	99.7	70-130
Sodium	5.00	0.0500	"	5.00	100	70-130

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Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**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 BHC0432 - General Preparation**

Duplicate (BHC0432-DUP1)	Source: 2403124-06	Prepared: 03/15/24	Analyzed: 03/16/24
% Solids	77.7	%	75.6
			2.74
			20

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Project: Chevron - Howard USX A09-13 Flowline  
 Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**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 BHC0845 - General Preparation**

**Blank (BHC0845-BLK1)**

Prepared: 03/21/24 Analyzed: 03/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHC0845-BS1)**

Prepared: 03/21/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.145 0.0100 mmhos/cm 0.150 96.7 95-105

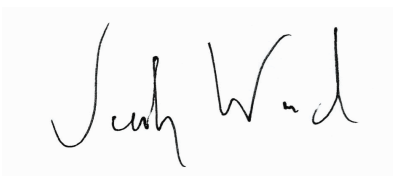
**Duplicate (BHC0845-DUP1)**

**Source: 2403130-01**

Prepared: 03/21/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.130 0.0100 mmhos/cm 0.120 7.99 20

Summit Scientific



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 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/23/24 15:00

**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 BHC0844 - General Preparation**

**LCS (BHC0844-BS1)**

Prepared: 03/21/24 Analyzed: 03/24/24

pH	9.17	pH Units	9.18	99.9	95-105
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**Duplicate (BHC0844-DUP1)**

Source: 2403130-01

Prepared: 03/21/24 Analyzed: 03/24/24

pH	8.48	pH Units	8.53	0.588	20
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PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Flowline

Project Number: UWRWE-A3602-ABN

Project Manager: Paul Henchan

**Reported:**

04/23/24 15:00

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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