

TABLE 1
 FIELD DATA SUMMARY TABLE
 NOBLE 100322
 HOWARD USX A09-10, WELD COUNTY, COLORADO
 REM # 32221

Sample ID	Sample Date	Depth	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
BKG04 2FT	03/18/2024	2'	40.4983806	-104.5530578	1.2	0.0
BKG05 2FT	03/18/2024	2'	40.4981234	-104.5527878	0.9	0.0
FL01 2FT	03/18/2024	2'	40.4987748	-104.5527961	0.9	0.3
FL02 2FT	03/18/2024	2'	40.4983911	-104.5528497	1.0	0.2
FL03 2FT	03/18/2024	2'	40.4983933	-104.5522713	0.9	0.4
FL04 2FT	03/18/2024	2'	40.4982713	-104.5511864	0.9	0.2
FL05 2FT	03/18/2024	2'	40.4980229	-104.5507378	0.9	0.0
FL06 2FT	03/18/2024	2'	40.4970504	-104.5509013	0.8	0.2
FL07 2FT	03/18/2024	2'	40.4965330	-104.5509094	0.9	0.4

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
HOWARD USX A09-10, WELD COUNTY, COLORADO
REM # 32221

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL01 2FT	03/18/2024	2'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL02 2FT	03/18/2024	2'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL03 2FT	03/18/2024	2'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL04 2FT	03/18/2024	2'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL05 2FT	03/18/2024	2'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL06 2FT	03/18/2024	2'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. * Indicates laboratory minimum detection limit in excess of SSL

4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
HOWARD USX A09-10, WELD COUNTY, COLORADO
REM # 32221

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01 2FT	03/18/2024	2'	<0.00500	0.0083	0.0196	0.0123	0.0171	<0.00500	0.0165	<0.00500	0.0463	0.00543	0.0158	0.0421	<0.00500	<0.00500
FL02 2FT	03/18/2024	2'	0.00934	0.0181	0.0283	0.0164	0.0234	0.00689	0.0236	<0.00500	0.0696	0.012	0.0189	0.062	<0.00500	<0.00500
FL03 2FT	03/18/2024	2'	0.00635	0.0145	0.0217	0.0134	0.0192	0.0053	0.0186	<0.00500	0.0534	0.00869	0.0158	0.0495	<0.00500	<0.00500
FL04 2FT	03/18/2024	2'	<0.00500	0.0165	0.00608	0.00645	0.00793	<0.00500	0.00529	<0.00500	0.0156	<0.00500	<0.00500	0.0128	<0.00500	<0.00500
FL05 2FT	03/18/2024	2'	<0.00500	0.0101	<0.00500	0.00533	<0.00500	<0.00500	<0.00500	<0.00500	0.0112	<0.00500	<0.00500	0.00841	<0.00500	<0.00500
FL06 2FT	03/18/2024	2'	<0.00500	0.0051	0.00916	0.00755	<0.00500	0.00689	0.00748	<0.00500	0.0241	<0.00500	<0.00500	0.0216	<0.00500	<0.00500
FL07 2FT	03/18/2024	2'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
HOWARD USX A09-10, WELD COUNTY, COLORADO
REM # 32221

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG04 2FT	03/18/2024	2'	8.51	0.458	0.306	<2.00
BKG05 2FT	03/18/2024	2'	8.45	0.484	0.592	<2.00
FL01 2FT	03/18/2024	2'	8.65	0.503	0.108	<2.00
FL02 2FT	03/18/2024	2'	8.50	0.534	0.122	<2.00
FL03 2FT	03/18/2024	2'	8.59	0.434	0.545	<2.00
FL04 2FT	03/18/2024	2'	8.13	1.51	1.66	<2.00
FL05 2FT	03/18/2024	2'	8.29	1.36	1.88	<2.00
FL06 2FT	03/18/2024	2'	8.16	1.50	1.92	<2.00
FL07 2FT	03/18/2024	2'	8.82	0.163	0.177	<2.00
Maximum Root Background Concentration (0 - 3 ft)			8.51	0.484	0.592	NA
Average Root Background Concentration (0 - 3 ft)			8.48	0.471	0.449	NA
Maximum Background Concentration			8.51	0.484	0.592	NA
Average Background Concentration			8.48	0.471	0.449	NA

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
HOWARD USX A09-10, WELD COUNTY, COLORADO
REM # 32221

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG04 2FT	03/18/2024	2'	3.15	88.4	<0.200	<0.30	12.3	5.60	5.89	<0.260	<0.0200	29.3
BKG05 2FT	03/18/2024	2'	3.86	83.3	<0.181	<0.30	10.1	5.86	5.84	<0.236	<0.0181	26.3
FL01 2FT	03/18/2024	2'	3.29	75.4	<0.200	<0.30	11.4	5.58	5.70	<0.260	<0.0200	27.3
FL02 2FT	03/18/2024	2'	3.95	75.3	<0.200	<0.30	9.08	5.58	5.84	<0.260	<0.0200	25.6
FL03 2FT	03/18/2024	2'	3.72	73.3	<0.200	<0.30	7.57	5.38	5.79	<0.260	<0.0200	22.9
FL04 2FT	03/18/2024	2'	4.28	101	<0.200	<0.30	6.8	5.84	8.07	<0.260	<0.0200	26.3
FL05 2FT	03/18/2024	2'	5.37	117	<0.200	<0.30	7.87	7.30	8.50	<0.260	<0.0200	30.4
FL06 2FT	03/18/2024	2'	5.21	125	<0.200	<0.30	8.02	7.07	9.63	<0.260	<0.0200	28.9
FL07 2FT	03/18/2024	2'	4.11	258	<0.200	<0.30	8.49	8.18	8.04	<0.260	<0.0200	33.4
Maximum Root Zone Background Concentration (0 - 3 ft)			3.86	88.4	NA	NA	12.3	5.86	5.89	NA	NA	29.3
125% Average Root Zone Background Concentration (0 - 3 ft)			4.38	107	NA	NA	14.0	7.16	7.33	NA	NA	34.8
Maximum Background Concentration			3.86	88.4	NA	NA	12.3	5.86	5.89	NA	NA	29.3
125% Average Background Concentration			4.38	107	NA	NA	14.0	7.16	7.33	NA	NA	34.8

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

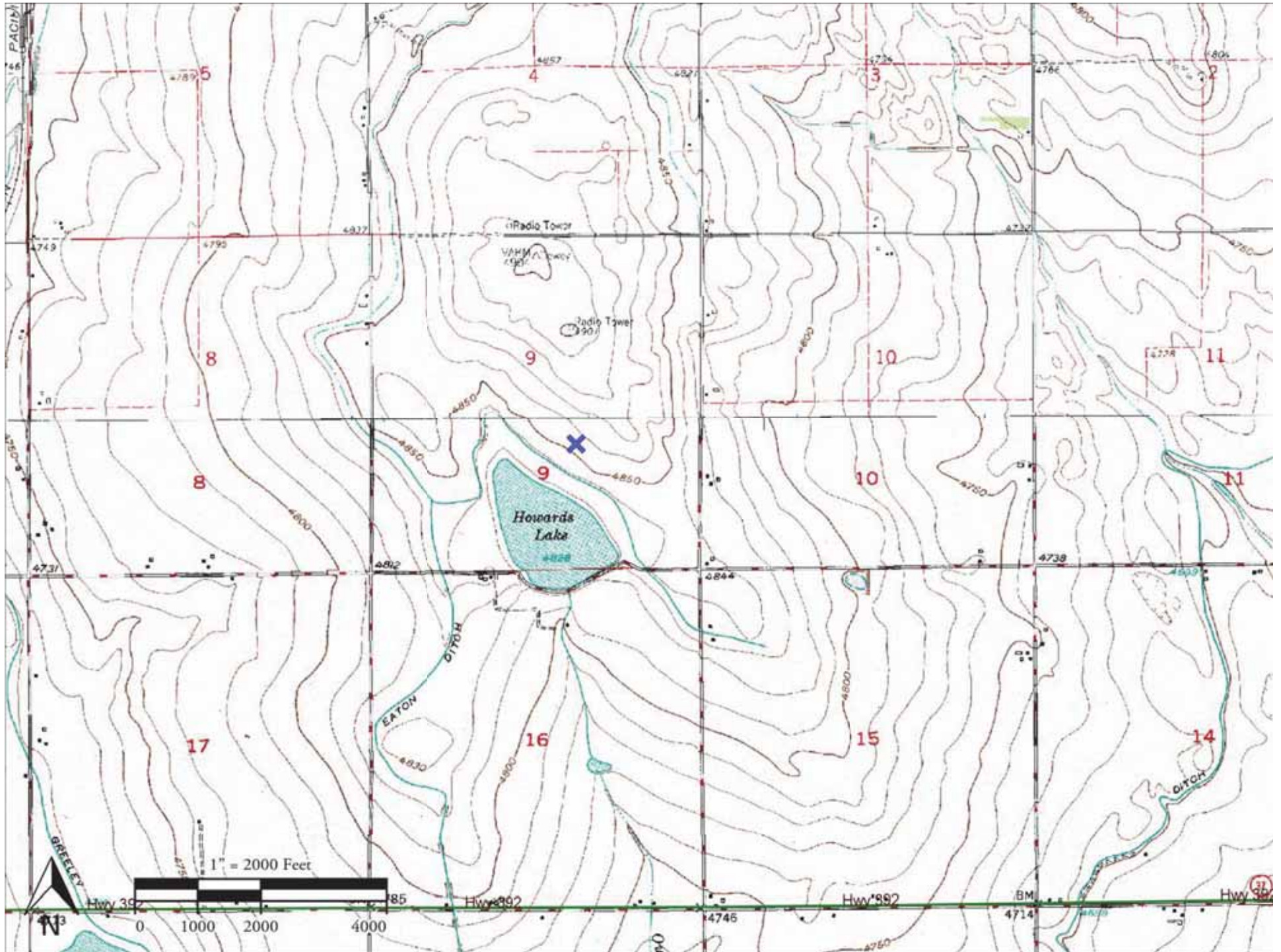
* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

Howard USX A09-10 Flowline



Howard USX A09-10

Date of Incident: 3/18/2024
API# 05-123-24495
NWSE Sec. 9, T6N, R64W
40.489397, -104.552240
Rem. # 32221
Fremont No. C024-057

Legend

- Impacted Soil Sample Location
- Soil Sample Location





Description:

Howard USX A09-10 Flowline - FL01 2FT, No Visual Staining or Odor

Photo Log



Description:

Howard USX A09-10 Flowline - FL01 2FT, No Visual Staining or Odor

Photo Log



Description:

Howard USX A09-10 Flowline - FL02 2FT, No Visual Staining or Odor

Photo Log



Description:

Howard USX A09-10 Flowline - FL03 2FT, No Visual Staining or Odor

Photo Log



Description:

Howard USX A09-10 Flowline - FL02 2FT, No Visual Staining or Odor



Description:

Howard USX A09-10 Flowline - General Overview

Photo Log



Description:

Howard USX A09-10 Flowline - FL04 2FT, No Visual Staining or Odor



Description:

Howard USX A09-10 Flowline - FL05 2FT, No Visual Staining or Odor

Photo Log



Description:

Howard USX A09-10 Flowline - FL06 2FT, No Visual Staining or Odor

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 05, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

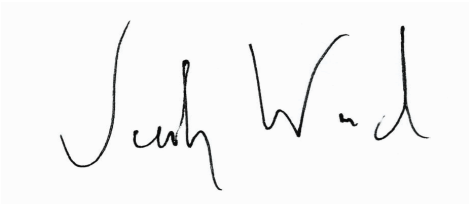
Wellington, CO 80549

RE: Chevron - Howard A09-10 Flowline

Work Order #2403358

Enclosed are the results of analyses for samples received by Summit Scientific on 03/22/24 17:15. 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 small flourish at the end of the word "Wood".

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 2FT	2403358-01	Soil	03/18/24 00:00	03/22/24 17:15
FL02 2FT	2403358-02	Soil	03/18/24 00:00	03/22/24 17:15
FL03 2FT	2403358-03	Soil	03/18/24 00:00	03/22/24 17:15
FL04 2FT	2403358-04	Soil	03/18/24 00:00	03/22/24 17:15
FL05 2FT	2403358-05	Soil	03/18/24 00:00	03/22/24 17:15
FL06 2FT	2403358-06	Soil	03/18/24 00:00	03/22/24 17:15
FL07 2FT	2403358-07	Soil	03/18/24 00:00	03/22/24 17:15
BKG04 2FT	2403358-08	Soil	03/18/24 00:00	03/22/24 17:15
BKG05 2FT	2403358-09	Soil	03/18/24 00:00	03/22/24 17:15

Case Narrative

Reported samples have been corrected to match COC on 9/5/2024.

This is a revision of the report originally sent on 5/16/2024 at 13:41 MT.

Summit Scientific

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



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

Lab ID	Page 1 of 1
2403358	

Send Data To:		Send Invoice To:	
Client: Fremont	Project Manager: Paul Henehan	Company: <i>Chamon</i>	
Address:	E-Mail:	Project Name/Location:	
City/State/Zip:		AFE#: <i>UWRWE-13597-ABN</i>	
Phone:	Project Name: <i>Howard A09-10 Flowline</i>	PO/Billing Codes:	
Sampler Name: <i>Aaron Olliver</i>	Project Number:	Contact: <i>Don Mike Mochaya</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX - 915	PAH	TPH (C6-C20)	SAR, EC, pH, Reson		Melub - 915	
1	FLO1 2FT	3/18/24		2			X							X	X	X	X	X	
2	FLO2 2FT																		
3	FLO3 2FT																		
4	FLO4 2FT																		
5	FLO5 2FT																		
6	FLO6 2FT																		
7	FLO7 2FT																		
8	BK604 2FT			1												X	X		
9	BK605 2FT			1												X	X		
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>Aaron Olliver</i>	Date/Time: 3/22/24 1646 1715	Received by: <i>SummitNorth</i>	Date/Time: 3/22/24 1646 1715	TAT Business Days	Field DO	Notes:
Relinquished by: <i>S2</i>	Date/Time: 32224 1715	Received by: <i>[Signature]</i>	Date/Time: 32224 1715	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 11.9	Corrected Temperature: <i>F</i>	IR gun #: 1	HNO3 lot #:	Standard	X	Field Turb.

S₂

Sample Receipt Checklist

S2 Work Order# 2403358

Client: Fremont

Client Project ID: Howard Aug-10 Flowline

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

Airbill #: _____

Matrix (Check all that apply)

Air

Sol/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OK
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	no sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2 extra jars labeled FLO7
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS

Custodian Printed Name

3/22/24

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL01 2FT
2403358-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0944	03/25/24	03/27/24	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: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0476	119 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0947	03/25/24	03/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.3	98.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL01 2FT
2403358-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	0.00830	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0196	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0123	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0171	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0165	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0463	0.00500	"	"	"	"	"	"	
Fluorene	0.00543	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	"	"	"	"	"	
Pyrene	0.0421	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0359	108 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0919	03/25/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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 A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL01 2FT
2403358-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.29	0.200	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	
Barium	75.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	11.4	0.400	"	"	"	"	"	"	
Lead	5.58	0.200	"	"	"	"	"	"	
Nickel	5.70	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	27.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0914	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1020	0.0500	mg/L dry	1	BHD0197	04/05/24	05/15/24	EPA 6020B	
Magnesium	41.7	0.0500	"	"	"	"	"	"	
Sodium	13.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.108	0.00100	units	1	BHE0517	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL01 2FT
2403358-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.8		%	1	BHC0903	03/25/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.503	0.0100	mmhos/cm	1	BHD0198	04/05/24	04/10/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.65		pH Units	1	BHD0199	04/05/24	04/10/24	EPA 9045D	

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PO Box 1289
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Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL02 2FT
2403358-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0944	03/25/24	03/27/24	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: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0504	126 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0947	03/25/24	03/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.6	116 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL02 2FT
2403358-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00934	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	0.0181	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0283	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0164	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0234	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00689	0.00500	"	"	"	"	"	"	
Chrysene	0.0236	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0696	0.00500	"	"	"	"	"	"	
Fluorene	0.0120	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	"	"	"	"	"	
Pyrene	0.0620	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0385	116 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0241	72.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0919	03/25/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.95	0.200	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	

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Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL02 2FT
2403358-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	75.3	0.400	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	9.08	0.400	"	"	"	"	"	"	
Lead	5.58	0.200	"	"	"	"	"	"	
Nickel	5.84	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	25.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0914	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	928	0.0500	mg/L dry	1	BHD0197	04/05/24	05/15/24	EPA 6020B	
Magnesium	37.0	0.0500	"	"	"	"	"	"	
Sodium	13.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.122	0.00100	units	1	BHE0517	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL02 2FT
2403358-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.6	%	1	BHC0903	03/25/24	03/28/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.534	0.0100	mmhos/cm	1	BHD0198	04/05/24	04/10/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BHD0199	04/05/24	04/10/24	EPA 9045D	

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Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL03 2FT
2403358-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0944	03/25/24	03/27/24	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: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0487	122 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0423	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0947	03/25/24	03/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.4	115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL03 2FT
2403358-03 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00635	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	0.0145	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0217	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0134	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0192	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00530	0.00500	"	"	"	"	"	"	
Chrysene	0.0186	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0534	0.00500	"	"	"	"	"	"	
Fluorene	0.00869	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	"	"	"	"	"	
Pyrene	0.0495	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0350	105 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0257	77.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0919	03/25/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.72	0.200	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	

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Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL03 2FT
2403358-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	73.3	0.400	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	7.57	0.400	"	"	"	"	"	"	
Lead	5.38	0.200	"	"	"	"	"	"	
Nickel	5.79	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	22.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0914	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	163	0.0500	mg/L dry	1	BHD0197	04/05/24	05/15/24	EPA 6020B	
Magnesium	10.8	0.0500	"	"	"	"	"	"	
Sodium	26.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.545	0.00100	units	1	BHE0517	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL03 2FT
2403358-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.5	%	1	BHC0903	03/25/24	03/28/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.434	0.0100	mmhos/cm	1	BHD0198	04/05/24	04/10/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BHD0199	04/05/24	04/10/24	EPA 9045D	

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Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL04 2FT
2403358-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0944	03/25/24	03/27/24	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: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0484	121 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0425	106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0414	103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0947	03/25/24	03/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	16.3	131 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL04 2FT
2403358-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	0.0165	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00608	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00645	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00793	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00529	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0156	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0128	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0448	135 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0252	75.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0919	03/25/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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 A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL04 2FT
2403358-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.28	0.200	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	
Barium	101	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.80	0.400	"	"	"	"	"	"	
Lead	5.84	0.200	"	"	"	"	"	"	
Nickel	8.07	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	26.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0914	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	202	0.0500	mg/L dry	1	BHD0197	04/05/24	05/15/24	EPA 6020B	
Magnesium	59.0	0.0500	"	"	"	"	"	"	
Sodium	104	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.66	0.00100	units	1	BHE0517	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL04 2FT
2403358-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BHC0903	03/25/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.51	0.0100	mmhos/cm	1	BHD0198	04/05/24	04/10/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHD0199	04/05/24	04/10/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL05 2FT
2403358-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHC0944	03/25/24	03/27/24	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: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0518	129 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0947	03/25/24	03/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	16.4	131 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL05 2FT
2403358-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	0.0101	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00533	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	0.0112	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00841	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0361	108 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0919	03/25/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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 A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL05 2FT
2403358-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.37	0.200	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	
Barium	117	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	7.87	0.400	"	"	"	"	"	"	
Lead	7.30	0.200	"	"	"	"	"	"	
Nickel	8.50	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	30.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0914	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	154	0.0500	mg/L dry	1	BHD0197	04/05/24	05/15/24	EPA 6020B	
Magnesium	70.4	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BHE0517	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL05 2FT
2403358-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BHC0903	03/25/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

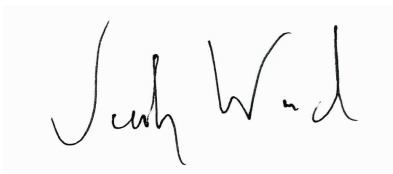
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.36	0.0100	mmhos/cm	1	BHD0198	04/05/24	04/10/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BHD0199	04/05/24	04/10/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL06 2FT
2403358-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0944	03/25/24	03/27/24	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: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0465	116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0414	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0947	03/25/24	03/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.8	126 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL06 2FT
2403358-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	0.00510	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00916	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00755	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00689	0.00500	"	"	"	"	"	"	
Chrysene	0.00748	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0241	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0216	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0350	105 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0257	77.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0919	03/25/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL06 2FT
2403358-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.21	0.200	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	
Barium	125	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.02	0.400	"	"	"	"	"	"	
Lead	7.07	0.200	"	"	"	"	"	"	
Nickel	9.63	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	28.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0914	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	195	0.0500	mg/L dry	1	BHD0197	04/05/24	05/15/24	EPA 6020B	
Magnesium	64.0	0.0500	"	"	"	"	"	"	
Sodium	121	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.92	0.00100	units	1	BHE0517	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL06 2FT
2403358-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BHC0903	03/25/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.50	0.0100	mmhos/cm	1	BHD0198	04/05/24	04/10/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHD0199	04/05/24	04/10/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL07 2FT
2403358-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0944	03/25/24	03/27/24	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: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0502	126 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0434	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0947	03/25/24	03/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

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

PAH by EPA Method 8270D SIM

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Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

FL07 2FT
2403358-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	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: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0312	93.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0919	03/25/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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 A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL07 2FT
2403358-07 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.11	0.200	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	
Barium	258	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.49	0.400	"	"	"	"	"	"	
Lead	8.18	0.200	"	"	"	"	"	"	
Nickel	8.04	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	33.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0914	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.7	0.0500	mg/L dry	1	BHD0197	04/05/24	05/15/24	EPA 6020B	
Magnesium	9.54	0.0500	"	"	"	"	"	"	
Sodium	5.17	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.177	0.00100	units	1	BHE0517	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

FL07 2FT
2403358-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.2		%	1	BHC0903	03/25/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.163	0.0100	mmhos/cm	1	BHD0198	04/05/24	04/10/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.82		pH Units	1	BHD0199	04/05/24	04/10/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

BKG04 2FT
2403358-08 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0919	03/25/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.15	0.200	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	
Barium	88.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	12.3	0.400	"	"	"	"	"	"	
Lead	5.60	0.200	"	"	"	"	"	"	
Nickel	5.89	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	29.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0914	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	399	0.0500	mg/L dry	1	BHD0197	04/05/24	05/15/24	EPA 6020B	
Magnesium	20.7	0.0500	"	"	"	"	"	"	
Sodium	23.1	0.0500	"	"	"	"	"	"	

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Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

BKG04 2FT
2403358-08 (Soil)

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Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.306	0.00100	units	1	BHE0517	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BHC0903	03/25/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.458	0.0100	mmhos/cm	1	BHD0198	04/05/24	04/10/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BHD0199	04/05/24	04/10/24	EPA 9045D	

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Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

BKG05 2FT
2403358-09 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0919	03/25/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.86	0.181	mg/kg dry	1	BHC0925	03/25/24	04/16/24	EPA 6020B	
Barium	83.3	0.362	"	"	"	"	"	"	
Cadmium	ND	0.181	"	"	"	"	"	"	
Copper	10.1	0.362	"	"	"	"	"	"	
Lead	5.86	0.181	"	"	"	"	"	"	
Nickel	5.84	0.362	"	"	"	"	"	"	
Silver	ND	0.0181	"	"	"	"	"	"	
Zinc	26.3	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0914	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	181	0.0500	mg/L dry	1	BHD0197	04/05/24	05/15/24	EPA 6020B	
Magnesium	12.3	0.0500	"	"	"	"	"	"	
Sodium	30.5	0.0500	"	"	"	"	"	"	

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Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

BKG05 2FT
2403358-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.592	0.00100	units	1	BHE0517	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.9		%	1	BHC0903	03/25/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.484	0.0100	mmhos/cm	1	BHD0198	04/05/24	04/10/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHD0199	04/05/24	04/10/24	EPA 9045D	

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Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

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 BHC0944 - EPA 5030 Soil MS

Blank (BHC0944-BLK1)

Prepared: 03/25/24 Analyzed: 03/27/24

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>	0.0462		"	0.0400		116	50-150			
<i>Surrogate: Toluene-d8</i>	0.0426		"	0.0400		107	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0408		"	0.0400		102	50-150			

LCS (BHC0944-BS1)

Prepared: 03/25/24 Analyzed: 03/27/24

Benzene	0.0863	0.0020	mg/kg	0.100		86.3	70-130			
Toluene	0.0920	0.0050	"	0.100		92.0	70-130			
Ethylbenzene	0.0892	0.0050	"	0.100		89.2	70-130			
m,p-Xylene	0.177	0.010	"	0.200		88.6	70-130			
o-Xylene	0.0892	0.0050	"	0.100		89.2	70-130			
1,2,4-Trimethylbenzene	0.0770	0.0050	"	0.100		77.0	70-130			
1,3,5-Trimethylbenzene	0.0784	0.0050	"	0.100		78.4	70-130			
Naphthalene	0.0950	0.0038	"	0.100		95.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0422		"	0.0400		105	50-150			
<i>Surrogate: Toluene-d8</i>	0.0401		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0410		"	0.0400		102	50-150			

Matrix Spike (BHC0944-MS1)

Source: 2403358-01

Prepared: 03/25/24 Analyzed: 03/27/24

Benzene	0.0826	0.0020	mg/kg	0.100	ND	82.6	70-130			
Toluene	0.0866	0.0050	"	0.100	ND	86.6	70-130			
Ethylbenzene	0.0750	0.0050	"	0.100	ND	75.0	70-130			
m,p-Xylene	0.150	0.010	"	0.200	ND	74.8	70-130			
o-Xylene	0.0746	0.0050	"	0.100	ND	74.6	70-130			
1,2,4-Trimethylbenzene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
1,3,5-Trimethylbenzene	0.0931	0.0050	"	0.100	ND	93.1	70-130			
Naphthalene	0.0792	0.0038	"	0.100	ND	79.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0485		"	0.0400		121	50-150			
<i>Surrogate: Toluene-d8</i>	0.0421		"	0.0400		105	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0418		"	0.0400		105	50-150			

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Fremont Environmental
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Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

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		

Batch BHC0944 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0944-MSD1)	Source: 2403358-01			Prepared: 03/25/24 Analyzed: 03/27/24						
Benzene	0.0802	0.0020	mg/kg	0.100	ND	80.2	70-130	2.91	30	
Toluene	0.0846	0.0050	"	0.100	ND	84.6	70-130	2.31	30	
Ethylbenzene	0.0761	0.0050	"	0.100	ND	76.1	70-130	1.47	30	
m,p-Xylene	0.151	0.010	"	0.200	ND	75.5	70-130	0.858	30	
o-Xylene	0.0749	0.0050	"	0.100	ND	74.9	70-130	0.522	30	
1,2,4-Trimethylbenzene	0.120	0.0050	"	0.100	ND	120	70-130	27.9	30	
1,3,5-Trimethylbenzene	0.0920	0.0050	"	0.100	ND	92.0	70-130	1.23	30	
Naphthalene	0.0782	0.0038	"	0.100	ND	78.2	70-130	1.37	30	
Surrogate: 1,2-Dichloroethane-d4	0.0472		"	0.0400		118	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	50-150			

Summit Scientific

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Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0947 - EPA 3550A

Blank (BHC0947-BLK1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	17.0		"	12.5		136	30-150			

LCS (BHC0947-BS1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	562	50	mg/kg	500		112	70-130			
Surrogate: <i>o</i> -Terphenyl	15.4		"	12.5		123	30-150			

Matrix Spike (BHC0947-MS1)

Source: 2403358-01

Prepared: 03/25/24 Analyzed: 03/28/24

C10-C28 (DRO)	569	50	mg/kg	500	14.1	111	70-130			
Surrogate: <i>o</i> -Terphenyl	15.3		"	12.5		123	30-150			

Matrix Spike Dup (BHC0947-MSD1)

Source: 2403358-01

Prepared: 03/25/24 Analyzed: 03/28/24

C10-C28 (DRO)	589	50	mg/kg	500	14.1	115	70-130	3.56	20	
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		110	30-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

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 BHC1021 - EPA 5030 Soil MS

Blank (BHC1021-BLK1)

Prepared: 03/27/24 Analyzed: 03/29/24

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>0.0366</i>		"	<i>0.0333</i>		<i>110</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0340</i>		"	<i>0.0333</i>		<i>102</i>		<i>40-150</i>		

LCS (BHC1021-BS1)

Prepared: 03/27/24 Analyzed: 03/29/24

Acenaphthene	0.0341	0.00500	mg/kg	0.0333	102	31-137
Anthracene	0.0323	0.00500	"	0.0333	97.0	30-120
Benzo (a) anthracene	0.0323	0.00500	"	0.0333	97.0	30-120
Benzo (a) pyrene	0.0300	0.00500	"	0.0333	90.1	30-120
Benzo (b) fluoranthene	0.0317	0.00500	"	0.0333	95.2	30-120
Benzo (k) fluoranthene	0.0347	0.00500	"	0.0333	104	30-120
Chrysene	0.0346	0.00500	"	0.0333	104	30-120
Dibenz (a,h) anthracene	0.0298	0.00500	"	0.0333	89.5	30-120
Fluoranthene	0.0320	0.00500	"	0.0333	96.0	30-120
Fluorene	0.0327	0.00500	"	0.0333	98.1	30-120
Indeno (1,2,3-cd) pyrene	0.0305	0.00500	"	0.0333	91.6	30-120
Pyrene	0.0381	0.00500	"	0.0333	114	35-142
1-Methylnaphthalene	0.0457	0.00500	"	0.0333	137	35-142
2-Methylnaphthalene	0.0345	0.00500	"	0.0333	104	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0459</i>		"	<i>0.0333</i>	<i>138</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0312</i>		"	<i>0.0333</i>	<i>93.5</i>	<i>40-150</i>

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PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

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 BHC1021 - EPA 5030 Soil MS

Matrix Spike (BHC1021-MS1)

Source: 2403357-01

Prepared: 03/27/24 Analyzed: 03/29/24

Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.4	31-137			
Anthracene	0.0218	0.00500	"	0.0333	ND	65.4	30-120			
Benzo (a) anthracene	0.0246	0.00500	"	0.0333	ND	73.9	30-120			
Benzo (a) pyrene	0.0222	0.00500	"	0.0333	0.00503	51.7	30-120			
Benzo (b) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120			
Benzo (k) fluoranthene	0.0195	0.00500	"	0.0333	ND	58.4	30-120			
Chrysene	0.0233	0.00500	"	0.0333	ND	69.8	30-120			
Dibenz (a,h) anthracene	0.0270	0.00500	"	0.0333	ND	80.9	30-120			
Fluoranthene	0.0227	0.00500	"	0.0333	0.00513	52.8	30-120			
Fluorene	0.0228	0.00500	"	0.0333	ND	68.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0270	0.00500	"	0.0333	ND	80.9	30-120			
Pyrene	0.0262	0.00500	"	0.0333	ND	78.6	35-142			
1-Methylnaphthalene	0.0310	0.00500	"	0.0333	ND	92.9	15-130			
2-Methylnaphthalene	0.0322	0.00500	"	0.0333	ND	96.6	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0284		"	0.0333		85.3	40-150			
Surrogate: Fluoranthene-d10	0.0218		"	0.0333		65.5	40-150			

Matrix Spike Dup (BHC1021-MSD1)

Source: 2403357-01

Prepared: 03/27/24 Analyzed: 03/29/24

Acenaphthene	0.0208	0.00500	mg/kg	0.0333	ND	62.4	31-137	7.73	30	
Anthracene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	12.5	30	
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.4	30-120	15.3	30	
Benzo (a) pyrene	0.0199	0.00500	"	0.0333	0.00503	44.5	30-120	11.4	30	
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	15.2	30	
Benzo (k) fluoranthene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	18.4	30	
Chrysene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	14.6	30	
Dibenz (a,h) anthracene	0.0261	0.00500	"	0.0333	ND	78.3	30-120	3.33	30	
Fluoranthene	0.0197	0.00500	"	0.0333	0.00513	43.8	30-120	14.2	30	
Fluorene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	8.22	30	
Indeno (1,2,3-cd) pyrene	0.0257	0.00500	"	0.0333	ND	77.2	30-120	4.61	30	
Pyrene	0.0219	0.00500	"	0.0333	ND	65.7	35-142	17.9	30	
1-Methylnaphthalene	0.0245	0.00500	"	0.0333	ND	73.5	15-130	23.3	50	
2-Methylnaphthalene	0.0254	0.00500	"	0.0333	ND	76.1	15-130	23.7	50	
Surrogate: 2-Methylnaphthalene-d10	0.0223		"	0.0333		66.8	40-150			
Surrogate: Fluoranthene-d10	0.0196		"	0.0333		58.7	40-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

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

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

Batch BHC0919 - EPA 3050B

Blank (BHC0919-BLK1)		Prepared: 03/25/24 Analyzed: 05/14/24								
Boron	ND	2.00	mg/L							
LCS (BHC0919-BS1)		Prepared: 03/25/24 Analyzed: 05/14/24								
Boron	4.80	2.00	mg/L	5.00		96.0	80-120			
Duplicate (BHC0919-DUP1)		Source: 2403358-01		Prepared: 03/25/24 Analyzed: 05/14/24						
Boron	0.430	2.00	mg/L		0.466			8.03	20	
Matrix Spike (BHC0919-MS1)		Source: 2403358-01		Prepared: 03/25/24 Analyzed: 05/14/24						
Boron	4.96	2.00	mg/L	5.00	0.466	89.9	75-125			
Matrix Spike Dup (BHC0919-MSD1)		Source: 2403358-01		Prepared: 03/25/24 Analyzed: 05/14/24						
Boron	5.02	2.00	mg/L	5.00	0.466	91.1	75-125	1.25	25	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

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 BHC0925 - EPA 3050B

Blank (BHC0925-BLK1)

Prepared: 03/25/24 Analyzed: 04/16/24

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 (BHC0925-BS1)

Prepared: 03/25/24 Analyzed: 04/16/24

Arsenic	37.8	0.200	mg/kg wet	40.0	94.5	80-120
Barium	38.2	0.400	"	40.0	95.5	80-120
Cadmium	1.88	0.200	"	2.00	93.8	80-120
Copper	38.2	0.400	"	40.0	95.5	80-120
Lead	19.0	0.200	"	20.0	95.2	80-120
Nickel	38.2	0.400	"	40.0	95.5	80-120
Silver	1.90	0.0200	"	2.00	95.0	80-120
Zinc	36.7	0.400	"	40.0	91.7	80-120
Selenium	4.07	0.260	"	4.00	102	80-120

Duplicate (BHC0925-DUP1)

Source: 2403358-01

Prepared: 03/25/24 Analyzed: 04/16/24

Arsenic	4.16	0.200	mg/kg dry	3.29	23.2	20	QR-01
Barium	84.4	0.400	"	75.4	11.2	20	
Cadmium	0.0454	0.200	"	0.0419	8.00	20	
Copper	11.2	0.400	"	11.4	1.67	20	
Lead	6.03	0.200	"	5.58	7.80	20	
Nickel	5.98	0.400	"	5.70	4.74	20	
Silver	0.00436	0.0200	"	0.00436	0.00	20	
Zinc	28.8	0.400	"	27.3	5.19	20	
Selenium	ND	0.260	"	ND		20	

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Fremont Environmental
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 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

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 BHC0925 - EPA 3050B

Matrix Spike (BHC0925-MS1)

Source: 2403358-01

Prepared: 03/25/24 Analyzed: 04/16/24

Arsenic	42.8	0.200	mg/kg dry	43.6	3.29	90.6	75-125			
Barium	128	0.400	"	43.6	75.4	122	75-125			
Cadmium	0.694	0.200	"	2.18	0.0419	29.9	75-125			QM-07
Copper	52.1	0.400	"	43.6	11.4	93.3	75-125			
Lead	24.9	0.200	"	21.8	5.58	88.6	75-125			
Nickel	47.1	0.400	"	43.6	5.70	94.8	75-125			
Silver	0.649	0.0200	"	2.18	0.00436	29.5	75-125			QM-07
Zinc	67.9	0.400	"	43.6	27.3	93.0	75-125			
Selenium	3.82	0.260	"	4.36	ND	87.5	75-125			

Matrix Spike Dup (BHC0925-MSD1)

Source: 2403358-01

Prepared: 03/25/24 Analyzed: 04/16/24

Arsenic	42.4	0.200	mg/kg dry	43.6	3.29	89.7	75-125	0.890	25	
Barium	121	0.400	"	43.6	75.4	103	75-125	6.37	25	
Cadmium	0.666	0.200	"	2.18	0.0419	28.6	75-125	4.24	25	QM-07
Copper	51.8	0.400	"	43.6	11.4	92.7	75-125	0.507	25	
Lead	23.7	0.200	"	21.8	5.58	83.0	75-125	5.05	25	
Nickel	47.2	0.400	"	43.6	5.70	95.1	75-125	0.259	25	
Silver	0.624	0.0200	"	2.18	0.00436	28.4	75-125	3.84	25	QM-07
Zinc	67.4	0.400	"	43.6	27.3	91.9	75-125	0.709	25	
Selenium	3.93	0.260	"	4.36	ND	90.1	75-125	2.94	25	

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 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

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 BHC0914 - 3060A Mod

Blank (BHC0914-BLK1)

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0914-BS1)

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent 25.1 0.30 mg/kg wet 25.0 100 80-120

Duplicate (BHC0914-DUP1)

Source: 2403358-01

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0914-MS1)

Source: 2403358-01

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent 28.0 0.30 mg/kg dry 28.2 ND 99.6 75-125

Matrix Spike Dup (BHC0914-MSD1)

Source: 2403358-01

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent 28.0 0.30 mg/kg dry 28.2 ND 99.6 75-125 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

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 BHD0197 - General Preparation

Blank (BHD0197-BLK1)

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

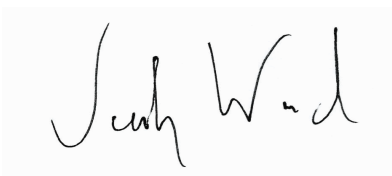
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BHD0197-BS1)

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

Calcium	5.81	0.0500	mg/L wet	5.00		116	70-130			
Magnesium	5.27	0.0500	"	5.00		105	70-130			
Sodium	5.49	0.0500	"	5.00		110	70-130			

Summit Scientific



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 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

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

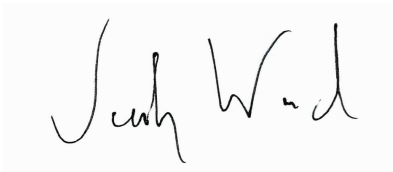
Summit Scientific

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

Batch BHC0903 - General Preparation

Duplicate (BHC0903-DUP1)	Source: 2403348-01	Prepared: 03/25/24	Analyzed: 03/28/24		
% Solids	88.0	%	87.1	0.929	20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline
 Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

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 BHD0198 - General Preparation

Blank (BHD0198-BLK1)

Prepared: 04/05/24 Analyzed: 04/10/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0198-BS1)

Prepared: 04/05/24 Analyzed: 04/10/24

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 98.0 95-105

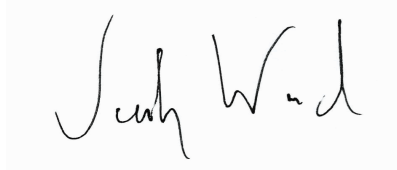
Duplicate (BHD0198-DUP1)

Source: 2403357-01

Prepared: 04/05/24 Analyzed: 04/10/24

Specific Conductance (EC) 0.432 0.0100 mmhos/cm 0.440 1.79 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
 Project Manager: Paul Henchan

Reported:
 09/05/24 12:13

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 BHD0199 - General Preparation

LCS (BHD0199-BS1)

Prepared: 04/05/24 Analyzed: 04/10/24

pH	9.01		pH Units	9.18		98.1	95-105			
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Duplicate (BHD0199-DUP1)

Source: 2403357-01

Prepared: 04/05/24 Analyzed: 04/10/24

pH	8.12		pH Units	8.24		1.47	20			
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard A09-10 Flowline

Project Number: UWRWE-A3597-ABN
Project Manager: Paul Henchan

Reported:
09/05/24 12:13

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below 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