

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

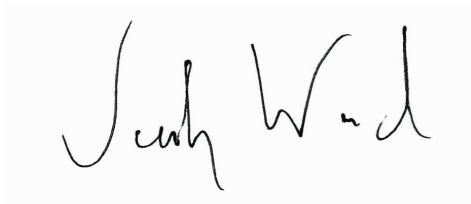
April 11, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Chevron - Howard USX A09-19 Tank Battery
Work Order #2403102

Enclosed are the results of analyses for samples received by Summit Scientific on 03/06/24 16:30. 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 "w" at the end of the last name.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0.5'	2403102-01	Soil	03/04/24 00:00	03/06/24 16:30
AST02@0.5'	2403102-02	Soil	03/04/24 00:00	03/06/24 16:30
AST03@0.5'	2403102-03	Soil	03/04/24 00:00	03/06/24 16:30
AST04@0.5'	2403102-04	Soil	03/04/24 00:00	03/06/24 16:30
SEP01-DL@2'	2403102-05	Soil	03/04/24 00:00	03/06/24 16:30
SEP02-DL@2'	2403102-06	Soil	03/04/24 00:00	03/06/24 16:30
PWV-N@2'	2403102-07	Soil	03/04/24 00:00	03/06/24 16:30
PWV-S@2'	2403102-08	Soil	03/04/24 00:00	03/06/24 16:30
PWV-W@2'	2403102-09	Soil	03/04/24 00:00	03/06/24 16:30
PWV-W2@2'	2403102-10	Soil	03/04/24 00:00	03/06/24 16:30
PWV-E@2'	2403102-11	Soil	03/04/24 00:00	03/06/24 16:30
PWV-E2@2'	2403102-12	Soil	03/04/24 00:00	03/06/24 16:30
PWV-B@5'	2403102-13	Soil	03/04/24 00:00	03/06/24 16:30
BKG01@0.5'	2403102-14	Soil	03/04/24 00:00	03/06/24 16:30
BKG01@2'	2403102-15	Soil	03/04/24 00:00	03/06/24 16:30
BKG01@5'	2403102-16	Soil	03/04/24 00:00	03/06/24 16:30
BKG02@0.5'	2403102-17	Soil	03/04/24 00:00	03/06/24 16:30
BKG02@2'	2403102-18	Soil	03/04/24 00:00	03/06/24 16:30
BKG02@5'	2403102-19	Soil	03/04/24 00:00	03/06/24 16:30
BKG03@0.5'	2403102-20	Soil	03/04/24 00:00	03/06/24 16:30
BKG03@2'	2403102-21	Soil	03/04/24 00:00	03/06/24 16:30
BKG03@5'	2403102-22	Soil	03/04/24 00:00	03/06/24 16:30

Summit Scientific

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

Lab ID	Page 2 of 2
2403102	

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: CHEVRON	
Address: 8305 6th Street		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		Project Name: Howard USX A09-19 Timberline		AFE#: UWRWG-A3657-ABN	
Phone: 603-477-6907		Project Number: C024-052		PO/Billing Codes:	
Sampler Name: Aaron Otilar		Contact: Mike Montoya			

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	Bk601e5'	3/4/24		1			X			X						X	X		
2	Bk602e0.5'																		
3	Bk602e2'																		
4	Bk602e5'																		
5	Bk603e0.5'																		
6	Bk603e2'																		
7	Bk603e5'																		
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>Aaron Otilar</i>	Date/Time: 3/5/24 1655	Received by: Summit North Office	Date/Time: 3/5/24 1655	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: SL	Date/Time: 3/6/24 1030	Received by: <i>[Signature]</i>	Date/Time: 3/6/24 1030	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 9.4	Corrected Temperature: e	IR gun #:	1	HNO3 lot #:		

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 2
2403102	

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan	Send Invoice To: Company: CHEVRON
Address: 8305 6th Street		E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip: Wellington, CO, 80549			AFE#: UWRWG-A3557-ABN
Phone: 603-477-6907		Project Name: Howard USX A09-19 Tank Battery	PO/Billing Codes:
Sampler Name: Aaron Otilar		Project Number: C024-052	Contact: <input checked="" type="checkbox"/> Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)	SAR, EC, pH, Boron	TDS, Cl, SO4	
1	AST01@0.5'	3/14/24		2			X			X			X	X	X	X	X			
2	AST02@0.5'																			
3	AST03@0.6'																			
4	AST04@0.5'																			
5	SEP01-DLE2'																			
6	SEP02-DLE3'																			
7	PWV-NE2'																			
8	PWV-SE2'																			
9	PWV-WE2'																			
10	PWV-W2@2'																			
11	PWV-E2'																			
12	PWV-E2@2'																			
13	PWV-BE5'																			
14	BK601@0.5'			1												X	X			
15	BK602@2'			1												X	X			

Relinquished by: <i>Aaron Otilar</i>	Date/Time: 3/15/24 1655	Received by: Summit North Office	Date/Time: 3/15/24 1655	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: SZ	Date/Time: 3/24 1630	Received by: <i>[Signature]</i>	Date/Time: 3/24 1630	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 9.4	Corrected Temperature: <i>[Signature]</i>	IR gun #: t	HNO3 lot #:			

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 24 03102

Client: Furnant Client Project ID: Howard USX A09-19 Tank Battery

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 9.4 Thermometer # 1

	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"/>	all JEE
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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? (1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	jars dated 3/5
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): jars for this project and 2403101 did not have "Tank Battery" or "Flowline" on them - difficult to determine which samples went				
(1) If NO, then contact the client before proceeding with analysis and note in case narrative. with each project				

AS
Custodian Printed Name

3/6/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST01@0.5'
2403102-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.34	66.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST01@0.5'
2403102-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0143	42.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0506	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST01@0.5'
2403102-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.931	0.200	mg/kg dry	1	BHC0598	03/18/24	03/23/24	EPA 6020B	
Barium	84.9	0.400	"	"	"	"	"	"	
Cadmium	0.232	0.200	"	"	"	"	"	"	
Copper	1.81	0.400	"	"	"	"	"	"	
Lead	8.83	0.200	"	"	"	"	"	"	
Nickel	2.08	0.400	"	"	"	"	"	"	
Silver	0.0325	0.0200	"	"	"	"	"	"	
Zinc	8.25	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 03/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: 03/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	96.2	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	28.7	0.0500	"	"	"	"	"	"	
Sodium	0.956	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 03/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0220	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 03/04/24 00:00

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

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

AST01@0.5'
2403102-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.2	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0480	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.28		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST02@0.5'
2403102-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	96.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.94	55.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST02@0.5'
2403102-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0189	56.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0506	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST02@0.5'
2403102-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.876	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B
Barium	87.6	0.400	"	"	"	"	"	"
Cadmium	0.262	0.200	"	"	"	"	"	"
Copper	1.71	0.400	"	"	"	"	"	"
Lead	11.6	0.200	"	"	"	"	"	"
Nickel	2.09	0.400	"	"	"	"	"	"
Silver	0.0325	0.0200	"	"	"	"	"	"
Zinc	8.14	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	99.8	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	29.3	0.0500	"	"	"	"	"	"	
Sodium	0.915	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0207	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

AST02@0.5'
2403102-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.7	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0390	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.08		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST03@0.5'
2403102-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.88	63.1 %		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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST03@0.5'
2403102-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0177	53.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0506	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST03@0.5'
2403102-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.962	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B
Barium	139	0.400	"	"	"	"	"	"
Cadmium	0.330	0.200	"	"	"	"	"	"
Copper	1.89	0.400	"	"	"	"	"	"
Lead	10.1	0.200	"	"	"	"	"	"
Nickel	2.55	0.400	"	"	"	"	"	"
Silver	0.0455	0.0200	"	"	"	"	"	"
Zinc	9.02	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.5	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	9.28	0.0500	"	"	"	"	"	"	
Sodium	4.87	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.172	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

AST03@0.5'
2403102-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.4	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.174	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST04@0.5'
2403102-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.72	53.7 %		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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST04@0.5'
2403102-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0506	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

AST04@0.5'
2403102-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.03	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	79.6	0.400	"	"	"	"	"	"	
Cadmium	0.214	0.200	"	"	"	"	"	"	
Copper	1.77	0.400	"	"	"	"	"	"	
Lead	7.97	0.200	"	"	"	"	"	"	
Nickel	1.91	0.400	"	"	"	"	"	"	
Silver	0.0257	0.0200	"	"	"	"	"	"	
Zinc	8.13	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	113	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	31.7	0.0500	"	"	"	"	"	"	
Sodium	1.41	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0302	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

AST04@0.5'
2403102-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.5	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0618	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.51		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

SEP01-DL@2'
2403102-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0440	110 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.3	82.3 %	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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

SEP01-DL@2'
2403102-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0506	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

SEP01-DL@2'
2403102-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.08	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	126	0.400	"	"	"	"	"	"	
Cadmium	0.245	0.200	"	"	"	"	"	"	
Copper	1.83	0.400	"	"	"	"	"	"	
Lead	9.44	0.200	"	"	"	"	"	"	
Nickel	2.27	0.400	"	"	"	"	"	"	
Silver	0.0397	0.0200	"	"	"	"	"	"	
Zinc	9.47	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.6	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	7.65	0.0500	"	"	"	"	"	"	
Sodium	6.02	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.201	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery
 Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

SEP01-DL@2'
2403102-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.6	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.133	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.77		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

SEP02-DL@2'
2403102-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0406	101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.68	69.5 %		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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

SEP02-DL@2'
2403102-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0200	59.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	58.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0506	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

SEP02-DL@2'
2403102-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.955	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	133	0.400	"	"	"	"	"	"	
Cadmium	0.365	0.200	"	"	"	"	"	"	
Copper	1.88	0.400	"	"	"	"	"	"	
Lead	10.3	0.200	"	"	"	"	"	"	
Nickel	3.25	0.400	"	"	"	"	"	"	
Silver	0.0358	0.0200	"	"	"	"	"	"	
Zinc	9.60	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	59.8	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	7.83	0.0500	"	"	"	"	"	"	
Sodium	5.07	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.164	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

SEP02-DL@2'
2403102-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.1	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.121	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.82		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-N@2'
2403102-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.76	62.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-N@2'
2403102-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0154	46.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0506	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

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

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-N@2'
2403102-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.02	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	137	0.400	"	"	"	"	"	"	
Cadmium	0.366	0.200	"	"	"	"	"	"	
Copper	2.04	0.400	"	"	"	"	"	"	
Lead	11.3	0.200	"	"	"	"	"	"	
Nickel	2.93	0.400	"	"	"	"	"	"	
Silver	0.0583	0.0200	"	"	"	"	"	"	
Zinc	9.89	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.8	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	13.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.464	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

PWV-N@2'
2403102-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.6	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.223	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-S@2'
2403102-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0381	95.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.89	63.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-S@2'
2403102-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0237	71.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0506	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

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

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-S@2'
2403102-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.933	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	113	0.400	"	"	"	"	"	"	
Cadmium	0.265	0.200	"	"	"	"	"	"	
Copper	2.12	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	2.29	0.400	"	"	"	"	"	"	
Silver	0.0542	0.0200	"	"	"	"	"	"	
Zinc	10.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	128	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	19.9	0.0500	"	"	"	"	"	"	
Sodium	3.93	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0853	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

PWV-S@2'
2403102-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.9	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.145	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-W@2'
2403102-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0402	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.26	66.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-W@2'
2403102-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0212	63.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

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

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-W@2'
2403102-09 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.994	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	150	0.400	"	"	"	"	"	"	
Cadmium	0.346	0.200	"	"	"	"	"	"	
Copper	1.96	0.400	"	"	"	"	"	"	
Lead	14.3	0.200	"	"	"	"	"	"	
Nickel	2.84	0.400	"	"	"	"	"	"	
Silver	0.0612	0.0200	"	"	"	"	"	"	
Zinc	10.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.8	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	10.8	0.0500	"	"	"	"	"	"	
Sodium	4.55	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.127	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

PWV-W@2'
2403102-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.7	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.124	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-W2@2'
2403102-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0430	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0426	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.32	74.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
04/11/24 13:20

PWV-W2@2'
2403102-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0196	58.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

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

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-W2@2'
2403102-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.08	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	169	0.400	"	"	"	"	"	"	
Cadmium	0.307	0.200	"	"	"	"	"	"	
Copper	2.45	0.400	"	"	"	"	"	"	
Lead	12.8	0.200	"	"	"	"	"	"	
Nickel	2.75	0.400	"	"	"	"	"	"	
Silver	0.0832	0.0200	"	"	"	"	"	"	
Zinc	10.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.7	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	9.26	0.0500	"	"	"	"	"	"	
Sodium	12.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.540	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery
 Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

PWV-W2@2'
2403102-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.2	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.256	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-E@2'
2403102-11 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.60	60.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-E@2'
2403102-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0232	69.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

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

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-E@2'
2403102-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.14	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	88.0	0.400	"	"	"	"	"	"	
Cadmium	0.278	0.200	"	"	"	"	"	"	
Copper	1.58	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	2.20	0.400	"	"	"	"	"	"	
Silver	0.0334	0.0200	"	"	"	"	"	"	
Zinc	8.01	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	125	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	40.7	0.0500	"	"	"	"	"	"	
Sodium	4.12	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0819	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 PO Box 1289
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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

PWV-E@2'
2403102-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.2	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0677	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-E2@2'
2403102-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.04	64.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-E2@2'
2403102-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0248	74.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

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

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-E2@2'
2403102-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.26	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B
Barium	116	0.400	"	"	"	"	"	"
Cadmium	0.254	0.200	"	"	"	"	"	"
Copper	1.97	0.400	"	"	"	"	"	"
Lead	12.0	0.200	"	"	"	"	"	"
Nickel	2.71	0.400	"	"	"	"	"	"
Silver	0.107	0.0200	"	"	"	"	"	"
Zinc	9.39	0.400	"	"	"	"	"	"
Selenium	0.261	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 03/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: 03/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	109	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	40.2	0.0500	"	"	"	"	"	"	
Sodium	6.41	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 03/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.133	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 03/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

PWV-E2@2'
2403102-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.1	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0744	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-B@5'
2403102-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0215	03/08/24	03/09/24	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: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0431	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0218	03/05/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.05	72.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-B@5'
2403102-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0310	03/12/24	03/12/24	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: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0214	64.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

PWV-B@5'
2403102-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.11	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B
Barium	137	0.400	"	"	"	"	"	"
Cadmium	0.244	0.200	"	"	"	"	"	"
Copper	1.90	0.400	"	"	"	"	"	"
Lead	10.3	0.200	"	"	"	"	"	"
Nickel	2.44	0.400	"	"	"	"	"	"
Silver	0.0580	0.0200	"	"	"	"	"	"
Zinc	9.24	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.4	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	8.33	0.0500	"	"	"	"	"	"	
Sodium	2.27	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0901	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 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 USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

PWV-B@5'
2403102-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.4	%	1	BHC0428	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.117	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.73		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG01@0.5'
2403102-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.54	0.200		mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	138	0.400		"	"	"	"	"	"	
Cadmium	0.311	0.200		"	"	"	"	"	"	
Copper	2.70	0.400		"	"	"	"	"	"	
Lead	14.5	0.200		"	"	"	"	"	"	
Nickel	2.63	0.400		"	"	"	"	"	"	
Silver	0.0816	0.0200		"	"	"	"	"	"	
Zinc	9.89	0.400		"	"	"	"	"	"	
Selenium	0.308	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	52.2	0.0500		mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	7.44	0.0500		"	"	"	"	"	"	
Sodium	14.1	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery
Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG01@0.5'
2403102-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.484	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	BHC0428	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.272	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG01@2'
2403102-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.893	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	60.6	0.400	"	"	"	"	"	"	
Cadmium	0.229	0.200	"	"	"	"	"	"	
Copper	2.77	0.400	"	"	"	"	"	"	
Lead	12.3	0.200	"	"	"	"	"	"	
Nickel	1.84	0.400	"	"	"	"	"	"	
Silver	0.0637	0.0200	"	"	"	"	"	"	
Zinc	3.65	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	31.8	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	13.4	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery
 Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

BKG01@2'
2403102-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.515	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.0		%	1	BHC0428	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.221	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG01@5'
2403102-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.42	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	131	0.400	"	"	"	"	"	"	
Cadmium	0.271	0.200	"	"	"	"	"	"	
Copper	2.83	0.400	"	"	"	"	"	"	
Lead	13.0	0.200	"	"	"	"	"	"	
Nickel	2.62	0.400	"	"	"	"	"	"	
Silver	0.0737	0.0200	"	"	"	"	"	"	
Zinc	9.76	0.400	"	"	"	"	"	"	
Selenium	0.275	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	54.8	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	7.71	0.0500	"	"	"	"	"	"	
Sodium	15.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG01@5'
2403102-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.506	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.8		%	1	BHC0428	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.288	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG02@0.5'
2403102-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.03	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	65.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.07	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	1.56	0.400	"	"	"	"	"	"	
Silver	0.0543	0.0200	"	"	"	"	"	"	
Zinc	5.29	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	30.5	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	16.0	0.0500	"	"	"	"	"	"	
Sodium	19.4	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

BKG02@0.5'
2403102-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.708	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHC0428	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.341	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG02@2'
2403102-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.28	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	160	0.400	"	"	"	"	"	"	
Cadmium	0.367	0.200	"	"	"	"	"	"	
Copper	2.20	0.400	"	"	"	"	"	"	
Lead	12.3	0.200	"	"	"	"	"	"	
Nickel	3.43	0.400	"	"	"	"	"	"	
Silver	0.0732	0.0200	"	"	"	"	"	"	
Zinc	10.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	36.5	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	10.4	0.0500	"	"	"	"	"	"	
Sodium	10.4	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery
Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG02@2'
2403102-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.391	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BHC0428	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.226	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG02@5'
2403102-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.995	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	107	0.400	"	"	"	"	"	"	
Cadmium	0.303	0.200	"	"	"	"	"	"	
Copper	2.77	0.400	"	"	"	"	"	"	
Lead	9.97	0.200	"	"	"	"	"	"	
Nickel	2.53	0.400	"	"	"	"	"	"	
Silver	0.0967	0.0200	"	"	"	"	"	"	
Zinc	2.64	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	30.1	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	17.0	0.0500	"	"	"	"	"	"	
Sodium	17.3	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery
 Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

BKG02@5'
2403102-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.625	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.8		%	1	BHC0428	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.280	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG03@0.5'
2403102-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.26	0.200	mg/kg dry	1	BHC0598	03/18/24	03/24/24	EPA 6020B	
Barium	79.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.14	0.400	"	"	"	"	"	"	
Lead	7.63	0.200	"	"	"	"	"	"	
Nickel	2.85	0.400	"	"	"	"	"	"	
Silver	0.0510	0.0200	"	"	"	"	"	"	
Zinc	10.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	65.1	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	7.27	0.0500	"	"	"	"	"	"	
Sodium	6.27	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG03@0.5'
2403102-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.197	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.2		%	1	BHC0428	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.174	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG03@2'
2403102-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	14.1	0.200		mg/kg dry	1	BHC0599	03/18/24	03/24/24	EPA 6020B	
Barium	288	0.400		"	"	"	"	"	"	
Cadmium	1.71	0.200		"	"	"	"	"	"	
Copper	10.8	0.400		"	"	"	"	"	"	
Lead	23.9	0.200		"	"	"	"	"	"	
Nickel	15.3	0.400		"	"	"	"	"	"	
Silver	0.216	0.0200		"	"	"	"	"	"	
Zinc	14.9	0.400		"	"	"	"	"	"	
Selenium	0.850	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	31.1	0.0500		mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	17.8	0.0500		"	"	"	"	"	"	
Sodium	18.4	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery
Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG03@2'
2403102-21 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.652	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.6		%	1	BHC0428	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.290	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

BKG03@5'
2403102-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0507	03/15/24	04/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.96	0.200	mg/kg dry	1	BHC0599	03/18/24	03/24/24	EPA 6020B	
Barium	124	0.400	"	"	"	"	"	"	
Cadmium	0.362	0.200	"	"	"	"	"	"	
Copper	7.53	0.400	"	"	"	"	"	"	
Lead	13.4	0.200	"	"	"	"	"	"	
Nickel	8.67	0.400	"	"	"	"	"	"	
Silver	0.0806	0.0200	"	"	"	"	"	"	
Zinc	30.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0606	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	30.0	0.0500	mg/L dry	1	BHC0772	03/20/24	04/10/24	EPA 6020B	
Magnesium	10.1	0.0500	"	"	"	"	"	"	
Sodium	10.7	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

BKG03@5'
2403102-22 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.431	0.00100	units	1	BHD0319	04/10/24	04/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.4		%	1	BHC0428	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.221	0.0100	mmhos/cm	1	BHC0776	03/20/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHC0774	03/20/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

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 BHC0215 - EPA 5030 Soil MS

Blank (BHC0215-BLK1)

Prepared & Analyzed: 03/08/24

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>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>50-150</i>			

LCS (BHC0215-BS1)

Prepared & Analyzed: 03/08/24

Benzene	0.115	0.0020	mg/kg	0.100		115	70-130			
Toluene	0.106	0.0050	"	0.100		106	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.3	70-130			
o-Xylene	0.0879	0.0050	"	0.100		87.9	70-130			
1,2,4-Trimethylbenzene	0.0874	0.0050	"	0.100		87.4	70-130			
1,3,5-Trimethylbenzene	0.0887	0.0050	"	0.100		88.7	70-130			
Naphthalene	0.0799	0.0038	"	0.100		79.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0450</i>		<i>"</i>	<i>0.0400</i>		<i>112</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0423</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

Matrix Spike (BHC0215-MS1)

Source: 2403102-01

Prepared & Analyzed: 03/08/24

Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130			
Toluene	0.0989	0.0050	"	0.100	ND	98.9	70-130			
Ethylbenzene	0.0919	0.0050	"	0.100	ND	91.9	70-130			
m,p-Xylene	0.166	0.010	"	0.200	ND	82.8	70-130			
o-Xylene	0.0773	0.0050	"	0.100	ND	77.3	70-130			
1,2,4-Trimethylbenzene	0.0951	0.0050	"	0.100	ND	95.1	70-130			
1,3,5-Trimethylbenzene	0.0992	0.0050	"	0.100	ND	99.2	70-130			
Naphthalene	0.0879	0.0038	"	0.100	ND	87.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0461</i>		<i>"</i>	<i>0.0400</i>		<i>115</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.5</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

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 BHC0215 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0215-MSD1)	Source: 2403102-01			Prepared & Analyzed: 03/08/24						
Benzene	0.104	0.0020	mg/kg	0.100	ND	104	70-130	5.07	30	
Toluene	0.0930	0.0050	"	0.100	ND	93.0	70-130	6.16	30	
Ethylbenzene	0.0926	0.0050	"	0.100	ND	92.6	70-130	0.716	30	
m,p-Xylene	0.165	0.010	"	0.200	ND	82.3	70-130	0.618	30	
o-Xylene	0.0766	0.0050	"	0.100	ND	76.6	70-130	0.857	30	
1,2,4-Trimethylbenzene	0.0930	0.0050	"	0.100	ND	93.0	70-130	2.27	30	
1,3,5-Trimethylbenzene	0.0983	0.0050	"	0.100	ND	98.3	70-130	0.942	30	
Naphthalene	0.0832	0.0038	"	0.100	ND	83.2	70-130	5.54	30	
Surrogate: 1,2-Dichloroethane-d4	0.0430		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0414		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.2	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery
Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

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 BHC0218 - EPA 3550A

Blank (BHC0218-BLK1)

Prepared & Analyzed: 03/08/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	7.45		"	12.5		59.6		30-150			

LCS (BHC0218-BS1)

Prepared & Analyzed: 03/08/24

C10-C28 (DRO)	451	50	mg/kg	500		90.2		70-130			
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		83.8		30-150			

Matrix Spike (BHC0218-MS1)

Source: 2403102-01

Prepared & Analyzed: 03/08/24

C10-C28 (DRO)	471	50	mg/kg	500	19.3	90.3		70-130			
Surrogate: <i>o</i> -Terphenyl	7.30		"	12.5		58.4		30-150			

Matrix Spike Dup (BHC0218-MSD1)

Source: 2403102-01

Prepared & Analyzed: 03/08/24

C10-C28 (DRO)	464	50	mg/kg	500	19.3	89.0		70-130	1.33	20	
Surrogate: <i>o</i> -Terphenyl	7.88		"	12.5		63.1		30-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery
Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

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 BHC0310 - EPA 5030 Soil MS

Blank (BHC0310-BLK1)

Prepared & Analyzed: 03/12/24

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>	0.0378		"	0.0333	113	40-150				
<i>Surrogate: Fluoranthene-d10</i>	0.0379		"	0.0333	114	40-150				

LCS (BHC0310-BS1)

Prepared & Analyzed: 03/12/24

Acenaphthene	0.0307	0.00500	mg/kg	0.0333	92.0	31-137				
Anthracene	0.0234	0.00500	"	0.0333	70.3	30-120				
Benzo (a) anthracene	0.0310	0.00500	"	0.0333	93.0	30-120				
Benzo (a) pyrene	0.0295	0.00500	"	0.0333	88.5	30-120				
Benzo (b) fluoranthene	0.0331	0.00500	"	0.0333	99.2	30-120				
Benzo (k) fluoranthene	0.0322	0.00500	"	0.0333	96.7	30-120				
Chrysene	0.0349	0.00500	"	0.0333	105	30-120				
Dibenz (a,h) anthracene	0.0228	0.00500	"	0.0333	68.4	30-120				
Fluoranthene	0.0391	0.00500	"	0.0333	117	30-120				
Fluorene	0.0312	0.00500	"	0.0333	93.7	30-120				
Indeno (1,2,3-cd) pyrene	0.0236	0.00500	"	0.0333	70.7	30-120				
Pyrene	0.0379	0.00500	"	0.0333	114	35-142				
1-Methylnaphthalene	0.0288	0.00500	"	0.0333	86.5	35-142				
2-Methylnaphthalene	0.0292	0.00500	"	0.0333	87.7	35-142				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0241		"	0.0333	72.4	40-150				
<i>Surrogate: Fluoranthene-d10</i>	0.0324		"	0.0333	97.3	40-150				

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Fremont Environmental
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Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

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 BHC0310 - EPA 5030 Soil MS

Matrix Spike (BHC0310-MS1)

Source: 2403102-01

Prepared & Analyzed: 03/12/24

Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	54.9	31-137			
Anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120			
Benzo (a) anthracene	0.0149	0.00500	"	0.0333	ND	44.8	30-120			
Benzo (a) pyrene	0.0172	0.00500	"	0.0333	ND	51.6	30-120			
Benzo (b) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.7	30-120			
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	30-120			
Chrysene	0.0153	0.00500	"	0.0333	ND	45.9	30-120			
Dibenz (a,h) anthracene	0.0161	0.00500	"	0.0333	ND	48.4	30-120			
Fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	30-120			
Fluorene	0.0205	0.00500	"	0.0333	ND	61.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0135	0.00500	"	0.0333	ND	40.6	30-120			
Pyrene	0.0141	0.00500	"	0.0333	ND	42.3	35-142			
1-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.0	15-130			
2-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0161		"	0.0333		48.3	40-150			
Surrogate: Fluoranthene-d10	0.0279		"	0.0333		83.6	40-150			

Matrix Spike Dup (BHC0310-MSD1)

Source: 2403102-01

Prepared & Analyzed: 03/12/24

Acenaphthene	0.0221	0.00500	mg/kg	0.0333	ND	66.2	31-137	18.6	30	
Anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	0.104	30	
Benzo (a) anthracene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	33.7	30	QR-02
Benzo (a) pyrene	0.0188	0.00500	"	0.0333	ND	56.3	30-120	8.62	30	
Benzo (b) fluoranthene	0.0199	0.00500	"	0.0333	ND	59.8	30-120	29.0	30	
Benzo (k) fluoranthene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	24.1	30	
Chrysene	0.0231	0.00500	"	0.0333	ND	69.4	30-120	40.7	30	QR-02
Dibenz (a,h) anthracene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	30.3	30	QR-02
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	14.2	30	
Fluorene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	1.20	30	
Indeno (1,2,3-cd) pyrene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	37.6	30	QR-02
Pyrene	0.0228	0.00500	"	0.0333	ND	68.3	35-142	47.0	30	QR-02
1-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.2	15-130	18.5	50	
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.6	15-130	37.9	50	
Surrogate: 2-Methylnaphthalene-d10	0.0192		"	0.0333		57.7	40-150			
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.5	40-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

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 BHC0506 - EPA 3050B

Blank (BHC0506-BLK1)											
Prepared: 03/15/24 Analyzed: 04/03/24											
Boron	ND	2.00	mg/L								
LCS (BHC0506-BS1)											
Prepared: 03/15/24 Analyzed: 04/03/24											
Boron	4.76	2.00	mg/L	5.00		95.2	80-120				
Duplicate (BHC0506-DUP1)											
Source: 2403101-01 Prepared: 03/15/24 Analyzed: 04/03/24											
Boron	0.0796	2.00	mg/L		0.0959			18.6	20		
Matrix Spike (BHC0506-MS1)											
Source: 2403101-01 Prepared: 03/15/24 Analyzed: 04/03/24											
Boron	4.97	2.00	mg/L	5.00	0.0959	97.5	75-125				
Matrix Spike Dup (BHC0506-MSD1)											
Source: 2403101-01 Prepared: 03/15/24 Analyzed: 04/03/24											
Boron	5.03	2.00	mg/L	5.00	0.0959	98.7	75-125	1.24	25		

Batch BHC0507 - EPA 3050B

Blank (BHC0507-BLK1)											
Prepared: 03/15/24 Analyzed: 04/03/24											
Boron	ND	2.00	mg/L								
LCS (BHC0507-BS1)											
Prepared: 03/15/24 Analyzed: 04/03/24											
Boron	5.03	2.00	mg/L	5.00		101	80-120				
Duplicate (BHC0507-DUP1)											
Source: 2403102-09 Prepared: 03/15/24 Analyzed: 04/03/24											
Boron	0.326	2.00	mg/L		0.326			0.0766	20		
Matrix Spike (BHC0507-MS1)											
Source: 2403102-09 Prepared: 03/15/24 Analyzed: 04/03/24											
Boron	4.89	2.00	mg/L	5.00	0.326	91.2	75-125				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

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

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

Batch BHC0507 - EPA 3050B


Matrix Spike Dup (BHC0507-MSD1)

Source: 2403102-09

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

Boron	4.84	2.00	mg/L	5.00	0.326	90.3	75-125	0.912	25	
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

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 BHC0598 - EPA 3050B

Blank (BHC0598-BLK1)

Prepared: 03/18/24 Analyzed: 03/23/24

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 (BHC0598-BS1)

Prepared: 03/18/24 Analyzed: 03/23/24

Arsenic	38.3	0.200	mg/kg wet	40.0	95.8	80-120
Barium	41.9	0.400	"	40.0	105	80-120
Cadmium	1.99	0.200	"	2.00	99.6	80-120
Copper	39.2	0.400	"	40.0	97.9	80-120
Lead	20.9	0.200	"	20.0	104	80-120
Nickel	38.4	0.400	"	40.0	96.0	80-120
Silver	2.03	0.0200	"	2.00	102	80-120
Zinc	37.9	0.400	"	40.0	94.6	80-120
Selenium	3.80	0.260	"	4.00	95.0	80-120

Duplicate (BHC0598-DUP1)

Source: 2403102-01

Prepared: 03/18/24 Analyzed: 03/23/24

Arsenic	1.17	0.200	mg/kg dry	0.931	22.7	20	QR-04
Barium	84.5	0.400	"	84.9	0.430	20	
Cadmium	0.225	0.200	"	0.232	3.04	20	
Copper	1.88	0.400	"	1.81	3.29	20	
Lead	9.67	0.200	"	8.83	9.07	20	
Nickel	2.01	0.400	"	2.08	3.29	20	
Silver	0.0329	0.0200	"	0.0325	1.42	20	
Zinc	8.63	0.400	"	8.25	4.43	20	
Selenium	0.213	0.260	"	0.210	1.54	20	

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Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

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 BHC0598 - EPA 3050B

Matrix Spike (BHC0598-MS1)

Source: 2403102-01

Prepared: 03/18/24 Analyzed: 03/23/24

Arsenic	11.4	0.200	mg/kg dry	46.4	0.931	22.6	75-125				QM-07
Barium	142	0.400	"	46.4	84.9	124	75-125				
Cadmium	2.60	0.200	"	2.32	0.232	102	75-125				
Copper	12.7	0.400	"	46.4	1.81	23.4	75-125				QM-07
Lead	31.2	0.200	"	23.2	8.83	96.4	75-125				
Nickel	13.1	0.400	"	46.4	2.08	23.7	75-125				QM-07
Silver	2.34	0.0200	"	2.32	0.0325	99.5	75-125				
Zinc	19.3	0.400	"	46.4	8.25	23.8	75-125				QM-07
Selenium	4.48	0.260	"	4.64	0.210	92.1	75-125				

Matrix Spike Dup (BHC0598-MSD1)

Source: 2403102-01

Prepared: 03/18/24 Analyzed: 03/23/24

Arsenic	11.3	0.200	mg/kg dry	46.4	0.931	22.4	75-125	0.809	25		QM-07
Barium	144	0.400	"	46.4	84.9	128	75-125	1.48	25		QM-07
Cadmium	2.64	0.200	"	2.32	0.232	104	75-125	1.43	25		
Copper	12.4	0.400	"	46.4	1.81	22.9	75-125	1.87	25		QM-07
Lead	31.4	0.200	"	23.2	8.83	97.2	75-125	0.586	25		
Nickel	12.9	0.400	"	46.4	2.08	23.3	75-125	1.14	25		QM-07
Silver	2.38	0.0200	"	2.32	0.0325	101	75-125	1.69	25		
Zinc	19.2	0.400	"	46.4	8.25	23.6	75-125	0.397	25		QM-07
Selenium	4.38	0.260	"	4.64	0.210	89.8	75-125	2.39	25		

Batch BHC0599 - EPA 3050B

Blank (BHC0599-BLK1)

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

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	"								

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Fremont Environmental
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Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
Project Manager: Paul Henchan

Reported:
04/11/24 13:20

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 BHC0599 - EPA 3050B

LCS (BHC0599-BS1)

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

Arsenic	36.4	0.200	mg/kg wet	40.0		91.0	80-120			
Barium	38.1	0.400	"	40.0		95.2	80-120			
Cadmium	2.04	0.200	"	2.00		102	80-120			
Copper	44.1	0.400	"	40.0		110	80-120			
Lead	19.5	0.200	"	20.0		97.5	80-120			
Nickel	43.3	0.400	"	40.0		108	80-120			
Silver	2.00	0.0200	"	2.00		99.9	80-120			
Zinc	44.6	0.400	"	40.0		112	80-120			
Selenium	4.38	0.260	"	4.00		109	80-120			

Duplicate (BHC0599-DUP1)

Source: 2403102-21

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

Arsenic	13.3	0.200	mg/kg dry		14.1			5.67	20	
Barium	248	0.400	"		288			15.2	20	
Cadmium	1.75	0.200	"		1.71			1.87	20	
Copper	11.5	0.400	"		10.8			6.31	20	
Lead	23.4	0.200	"		23.9			2.03	20	
Nickel	17.4	0.400	"		15.3			13.0	20	
Silver	0.218	0.0200	"		0.216			0.962	20	
Zinc	15.5	0.400	"		14.9			3.68	20	
Selenium	0.699	0.260	"		0.850			19.4	20	

Matrix Spike (BHC0599-MS1)

Source: 2403102-21

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

Arsenic	55.2	0.200	mg/kg dry	52.2	14.1	78.8	75-125			
Barium	248	0.400	"	52.2	288	NR	75-125			QM-07
Cadmium	4.35	0.200	"	2.61	1.71	101	75-125			
Copper	24.4	0.400	"	52.2	10.8	26.0	75-125			QM-07
Lead	49.4	0.200	"	26.1	23.9	97.7	75-125			
Nickel	28.8	0.400	"	52.2	15.3	25.9	75-125			QM-07
Silver	2.83	0.0200	"	2.61	0.216	99.9	75-125			
Zinc	26.4	0.400	"	52.2	14.9	21.9	75-125			QM-07
Selenium	4.99	0.260	"	5.22	0.850	79.2	75-125			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0599 - EPA 3050B

Matrix Spike Dup (BHC0599-MSD1)	Source: 2403102-21			Prepared: 03/18/24 Analyzed: 03/24/24							
Arsenic	55.9	0.200	mg/kg dry	52.2	14.1	80.2	75-125	1.30	25		
Barium	251	0.400	"	52.2	288	NR	75-125	1.33	25	QM-07	
Cadmium	4.42	0.200	"	2.61	1.71	103	75-125	1.55	25		
Copper	24.4	0.400	"	52.2	10.8	26.2	75-125	0.317	25	QM-07	
Lead	50.1	0.200	"	26.1	23.9	101	75-125	1.51	25		
Nickel	29.1	0.400	"	52.2	15.3	26.4	75-125	0.956	25	QM-07	
Silver	2.86	0.0200	"	2.61	0.216	101	75-125	1.38	25		
Zinc	26.5	0.400	"	52.2	14.9	22.3	75-125	0.691	25	QM-07	
Selenium	5.13	0.260	"	5.22	0.850	82.0	75-125	2.83	25		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0606 - 3060A Mod

Blank (BHC0606-BLK1)

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0606-BS1)

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent 25.0 0.30 mg/kg wet 25.0 99.8 80-120

Duplicate (BHC0606-DUP1)

Source: 2403102-01

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0606-MS1)

Source: 2403102-01

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent 29.0 0.30 mg/kg dry 29.0 ND 100 75-125

Matrix Spike Dup (BHC0606-MSD1)

Source: 2403102-01

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent 29.0 0.30 mg/kg dry 29.0 ND 100 75-125 0.00 20

Summit Scientific

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 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

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 BHC0772 - General Preparation

Blank (BHC0772-BLK1)

Prepared: 03/20/24 Analyzed: 04/10/24

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

LCS (BHC0772-BS1)

Prepared: 03/20/24 Analyzed: 04/10/24

Calcium	5.17	0.0500	mg/L wet	5.00	103	70-130				
Magnesium	5.39	0.0500	"	5.00	108	70-130				
Sodium	5.53	0.0500	"	5.00	111	70-130				

Summit Scientific

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

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 BHC0428 - General Preparation


Duplicate (BHC0428-DUP1)

Source: 2403101-01

Prepared: 03/15/24 Analyzed: 03/16/24

% Solids	90.7		%		91.3			0.654	20	
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Summit Scientific



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Fremont Environmental
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 Wellington CO, 80549

Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

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 BHC0776 - General Preparation

Blank (BHC0776-BLK1)

Prepared: 03/20/24 Analyzed: 03/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC0776-BS1)

Prepared: 03/20/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105


Duplicate (BHC0776-DUP1)

Source: 2403102-01

Prepared: 03/20/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.0481 0.0100 mmhos/cm 0.0480 0.291 20

Summit Scientific



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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052
 Project Manager: Paul Henchan

Reported:
 04/11/24 13:20

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 BHC0774 - General Preparation

LCS (BHC0774-BS1)

Prepared: 03/20/24 Analyzed: 03/24/24

pH	9.04	pH Units	9.18	98.5	95-105
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Duplicate (BHC0774-DUP1)

Source: 2403102-01

Prepared: 03/20/24 Analyzed: 03/24/24

pH	7.23	pH Units	7.28	0.689	20
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Summit Scientific

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Project: Chevron - Howard USX A09-19 Tank Battery

Project Number: UWRWE-A3557-ABN CO24-052

Project Manager: Paul Henchan

Reported:
04/11/24 13:20

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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