

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 09, 2025

David Stainback

CDH Consulting

9446 Clermont St.

Thornton, CO 80119

RE: Chevron - Mosier K23-21D Tank Battery

Work Order #2504194

Enclosed are the results of analyses for samples received by Summit Scientific on 04/10/25 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury

President



CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-DL@3'	2504194-01	Soil	04/10/25 09:50	04/10/25 16:30
SEP02-DL@3'	2504194-02	Soil	04/10/25 09:52	04/10/25 16:30
SEP03-DL@3'	2504194-03	Soil	04/10/25 09:54	04/10/25 16:30
SEP04-DL@3'	2504194-04	Soil	04/10/25 09:56	04/10/25 16:30
AST01@0-6"	2504194-05	Soil	04/10/25 14:20	04/10/25 16:30
AST02@0-6"	2504194-06	Soil	04/10/25 14:22	04/10/25 16:30
AST03@0-6"	2504194-07	Soil	04/10/25 14:24	04/10/25 16:30
PWV01@5'	2504194-08	Soil	04/10/25 11:40	04/10/25 16:30
PWV02@5'	2504194-09	Soil	04/10/25 11:42	04/10/25 16:30
PWV03@5'	2504194-10	Soil	04/10/25 11:44	04/10/25 16:30
PWV04@5'	2504194-11	Soil	04/10/25 11:46	04/10/25 16:30
PWV05@5'	2504194-12	Soil	04/10/25 13:35	04/10/25 16:30
PWV-S1@4'	2504194-13	Soil	04/10/25 11:48	04/10/25 16:30
PWV05-E@4'	2504194-14	Soil	04/10/25 13:40	04/10/25 16:30
BKG01@0-6"	2504194-15	Soil	04/10/25 13:00	04/10/25 16:30
BKG01@3'	2504194-16	Soil	04/10/25 13:02	04/10/25 16:30
BKG01@4.5'	2504194-17	Soil	04/10/25 13:04	04/10/25 16:30
BKG02@0-6"	2504194-18	Soil	04/10/25 13:10	04/10/25 16:30
BKG02@3'	2504194-19	Soil	04/10/25 13:12	04/10/25 16:30
BKG02@4.5'	2504194-20	Soil	04/10/25 13:14	04/10/25 16:30
BKG03@0-6"	2504194-21	Soil	04/10/25 13:20	04/10/25 16:30
BKG03@3'	2504194-22	Soil	04/10/25 13:22	04/10/25 16:30
BKG03@4.5'	2504194-23	Soil	04/10/25 13:24	04/10/25 16:30

Summit Scientific

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

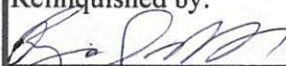
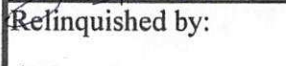
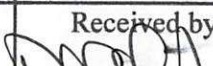
Client: CDH Consulting, LLC		Send Data To:		Send Invoice To:	
Address:		Project Manager: David Stauck		Company: Chevron	
City/State/Zip:		E-Mail: CVX-PM@CDHconsult.com		Project Name/Location:	
Phone:		RBUUF27@chevron.com		AFE#:	
Sampler Name: Ryan Sedrzek		Project Name: Mosier K23-21D TB		PO/Billing Codes:	
		Project Number:		Contact: Dan Peterson	

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full list 915-1									
1	Sep01-DL@3'	4/10/25	0958	3			X			X			X									
2	Sep02-DL@3'		0952	3			X			X			X									
3	Sep03-DL@3'		0954	3			X			X			X									
4	Sep04-DL@3'		0956	3			X			X			X									
5	AST01@0-6"		1420	2			X			X			X									
6	AST02@0-6"		1422	2			X			X			X									
7	AST03@0-6"		1424	2			X			X			X									
8	PWV01@5'		1140	2			X			X			X									
9	PWV02@5'		1142	2			X			X			X									
10	PWV03@5'		1144	2			X			X			X									
11	PWV04@5'		1146	2			X			X			X									
12	PWV05@5'		1335	2			X			X			X									
13	PWV-51@4'		1148	2			X			X			X									
14	PWV05-E@4'		1340	2			X			X			X									
15																						

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
	4/10/25 1528	Summit	4/10/25 1528	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
	4/10/25 1630		4/10/25 1630	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
	4/10/25 1630		4/10/25 1630	Standard	Field Turb.	
Temperature Upon Receipt: 23.4	Corrected Temperature: 2	IR gun #:		HNO3 lot #:		

Client: CDH Consulting, LLC		Send Data To:		Send Invoice To:	
Address:		Project Manager: David Stainback		Company: chevron	
City/State/Zip:		E-Mail: CUX-PM@CDHconsult.com		Project Name/Location:	
Phone:		Project Name: Mosier K23-21D TB		AFE#:	
Sampler Name: Ryan Jodrzegalc		Project Number:		PO/Billing Codes:	
				Contact: Dan Peterson	

					Preservative				Matrix			Analysis Requested					Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	PH	EC	SAR	Boron	915 Metals	
1	BKGO1e0-6"	4/10/25	1306	2			X			X			X	X	X	X	X	
2	BKGO1e3'		1302	2			X			X			X	X	X	X	X	
3	BKGO1e4.5'		1304	2			X			X			X	X	X	X	X	
4	BKGO2e0-6"		1310	2			X			X			X	X	X	X	X	
5	BKGO2e3'		1312	2			X			X			X	X	X	X	X	
6	BKGO2e4.5'		1314	2			X			X			X	X	X	X	X	
7	BKGO3e0-6"		1320	2			X			X			X	X	X	X	X	
8	BKGO3e3'		1322	2			X			X			X	X	X	X	X	
9	BKGO3e4.5'	6	1324	2			X			X			X	X	X	X	X	
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: 	Date/Time: 4/10/25 1528	Received by: Summit	Date/Time: 4/10/25 1528	TAT Business Days	Field DO	Notes:
Relinquished by: 	Date/Time: 4/10/25 1630	Received by: 	Date/Time: 4/10/25 1630	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 4.1	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:			

S2 Work Order# 2504194

Client: CDH Client Project ID: Mosier K73-210 TB

Matrix (Circle all that apply) Air/ <u>Soil</u> /Water/Other	Temp (°C)	Thermometer #
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Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	—			on 2GE
If custody seals are present, are they intact? ⁽¹⁾	—			
Are samples due within 48 hours?	—			Same day
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, Total Residual Chlorine (TRC)		—		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	—			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	—			
Were all samples received intact? ⁽¹⁾	—			
Was adequate sample volume provided? ⁽¹⁾	—			
Were samples provided in appropriate bottle ware?	—			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	—			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	—			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			—	
Are any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			—	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			—	
If dissolved metals are requested, were samples field filtered?			—	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		—		
Additional Comments (if any):				

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

Custodian Printed Name

Date/Time



CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP01-DL@3'
2504194-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

R-05

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	0.69	0.020	mg/kg	10	BID0621	04/10/25	04/10/25	EPA 8260B	
Toluene	28	0.50	"	100	"	"	04/11/25	"	
Ethylbenzene	2.4	0.050	"	10	"	"	04/10/25	"	
Xylenes (total)	86	1.0	"	100	"	"	04/11/25	"	
1,2,4-Trimethylbenzene	16	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	16	0.50	"	"	"	"	"	"	
Naphthalene	0.21	0.038	"	10	"	"	04/10/25	"	
Gasoline Range Hydrocarbons	2400	50	"	100	"	"	04/11/25	"	

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0493	123 %	50-150		"	"	04/10/25	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0440	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	280	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.06	72.5 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP01-DL@3'
2504194-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0112	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.237	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.400	0.00500	"	"	"	"	"	"	E

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0247	74.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP01-DL@3'
2504194-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.599	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	92.8	0.400	"	"	"	"	"	"
Cadmium	0.200	0.200	"	"	"	"	"	"
Copper	2.01	0.400	"	"	"	"	"	"
Lead	7.40	0.200	"	"	"	"	"	"
Nickel	1.48	0.400	"	"	"	"	"	"
Silver	0.0267	0.0200	"	"	"	"	"	"
Zinc	7.40	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	99.0	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	20.8	0.0500	"	"	"	"	"	"	
Sodium	11.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.281	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

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05/09/25 10:49

SEP01-DL@3'
2504194-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.3	%	1	BID0632	04/11/25	04/11/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.158	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP02-DL@3'
2504194-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/10/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.08	64.7 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP02-DL@3'
2504194-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0108	32.4 %	40-140		"	"	"	"	S-04
Surrogate: Fluoranthene-d10	0.0213	63.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP02-DL@3'
2504194-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.598	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	97.8	0.400	"	"	"	"	"	"
Cadmium	0.237	0.200	"	"	"	"	"	"
Copper	2.15	0.400	"	"	"	"	"	"
Lead	10.0	0.200	"	"	"	"	"	"
Nickel	1.67	0.400	"	"	"	"	"	"
Silver	0.0612	0.0200	"	"	"	"	"	"
Zinc	8.54	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	272	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	45.7	0.0500	"	"	"	"	"	"	
Sodium	22.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.331	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP02-DL@3'
2504194-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.1	%	1	BID0632	04/11/25	04/11/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.242	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP03-DL@3'
2504194-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/11/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0396	99.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.16	65.3 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP03-DL@3'
2504194-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP03-DL@3'
2504194-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.656	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	106	0.400	"	"	"	"	"	"
Cadmium	0.294	0.200	"	"	"	"	"	"
Copper	2.65	0.400	"	"	"	"	"	"
Lead	11.9	0.200	"	"	"	"	"	"
Nickel	1.92	0.400	"	"	"	"	"	"
Silver	0.0933	0.0200	"	"	"	"	"	"
Zinc	10.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.1	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	12.6	0.0500	"	"	"	"	"	"	
Sodium	4.81	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.140	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP03-DL@3'
2504194-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.0	%	1	BID0632	04/11/25	04/11/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.204	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP04-DL@3'
2504194-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/10/25	EPA 8260B	
Toluene	0.015	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: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.31	66.5 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP04-DL@3'
2504194-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP04-DL@3'
2504194-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.15	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	70.9	0.400	"	"	"	"	"	"
Cadmium	0.237	0.200	"	"	"	"	"	"
Copper	2.53	0.400	"	"	"	"	"	"
Lead	8.08	0.200	"	"	"	"	"	"
Nickel	2.72	0.400	"	"	"	"	"	"
Silver	0.0376	0.0200	"	"	"	"	"	"
Zinc	11.5	0.400	"	"	"	"	"	"
Selenium	0.299	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	126	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	22.8	0.0500	"	"	"	"	"	"	
Sodium	2.06	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.0444	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

SEP04-DL@3'
2504194-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.1	%	1	BID0632	04/11/25	04/11/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.153	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 09:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST01@0-6"
2504194-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/10/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.86	54.9 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST01@0-6"
2504194-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST01@0-6"
2504194-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.616	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	93.6	0.400	"	"	"	"	"	"
Cadmium	0.295	0.200	"	"	"	"	"	"
Copper	3.05	0.400	"	"	"	"	"	"
Lead	11.6	0.200	"	"	"	"	"	"
Nickel	1.72	0.400	"	"	"	"	"	"
Silver	0.110	0.0200	"	"	"	"	"	"
Zinc	12.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	233	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	27.7	0.0500	"	"	"	"	"	"	
Sodium	19.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.322	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST01@0-6"
2504194-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.6	%	1	BID0632	04/11/25	04/11/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.217	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST02@0-6"
2504194-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/10/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.40	51.2 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST02@0-6"
2504194-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0240	72.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST02@0-6"
2504194-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.711	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	92.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.30	0.400	"	"	"	"	"	"
Lead	9.15	0.200	"	"	"	"	"	"
Nickel	1.59	0.400	"	"	"	"	"	"
Silver	0.0681	0.0200	"	"	"	"	"	"
Zinc	9.09	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	422	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	45.0	0.0500	"	"	"	"	"	"	
Sodium	18.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.231	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST02@0-6"
2504194-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.4		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.266	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST03@0-6"
2504194-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/10/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0382	95.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/11/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.4 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST03@0-6"
2504194-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST03@0-6"
2504194-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.651	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	191	0.400	"	"	"	"	"	"
Cadmium	0.320	0.200	"	"	"	"	"	"
Copper	4.21	0.400	"	"	"	"	"	"
Lead	11.6	0.200	"	"	"	"	"	"
Nickel	1.89	0.400	"	"	"	"	"	"
Silver	0.0923	0.0200	"	"	"	"	"	"
Zinc	13.5	0.400	"	"	"	"	"	"
Selenium	0.336	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	152	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	20.7	0.0500	"	"	"	"	"	"	
Sodium	15.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.317	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

AST03@0-6"
2504194-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.5	%	1	BID0632	04/11/25	04/11/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.235	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 14:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV01@5'
2504194-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/11/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0396	99.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.95	63.6 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV01@5'
2504194-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 11:40**

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

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV01@5'
2504194-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.607	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	91.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.19	0.400	"	"	"	"	"	"
Lead	9.24	0.200	"	"	"	"	"	"
Nickel	1.69	0.400	"	"	"	"	"	"
Silver	0.0734	0.0200	"	"	"	"	"	"
Zinc	9.04	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	92.5	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	12.3	0.0500	"	"	"	"	"	"	
Sodium	9.04	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.234	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV01@5'
2504194-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.9			%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.236	0.0100		mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.20			pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV02@5'
2504194-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/11/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.04	56.3 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV02@5'
2504194-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV02@5'
2504194-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.585	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	91.2	0.400	"	"	"	"	"	"
Cadmium	0.224	0.200	"	"	"	"	"	"
Copper	2.18	0.400	"	"	"	"	"	"
Lead	9.52	0.200	"	"	"	"	"	"
Nickel	1.65	0.400	"	"	"	"	"	"
Silver	0.0543	0.0200	"	"	"	"	"	"
Zinc	8.97	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.8	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	15.4	0.0500	"	"	"	"	"	"	
Sodium	32.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.911	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV02@5'
2504194-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.3	%	1	BID0632	04/11/25	04/11/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.366	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV03@5'
2504194-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/11/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0391	97.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.54	60.3 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV03@5'
2504194-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0245	73.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 11:44**

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

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV03@5'
2504194-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.676	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	87.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.12	0.400	"	"	"	"	"	"
Lead	8.53	0.200	"	"	"	"	"	"
Nickel	1.86	0.400	"	"	"	"	"	"
Silver	0.0482	0.0200	"	"	"	"	"	"
Zinc	8.77	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.0	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	8.98	0.0500	"	"	"	"	"	"	
Sodium	27.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.982	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV03@5'
2504194-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.6			%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.399	0.0100		mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 11:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.07			pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV04@5'
2504194-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/11/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.89	63.1 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV04@5'
2504194-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0257	77.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV04@5'
2504194-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.654	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	105	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.87	0.400	"	"	"	"	"	"
Lead	7.26	0.200	"	"	"	"	"	"
Nickel	1.73	0.400	"	"	"	"	"	"
Silver	0.0421	0.0200	"	"	"	"	"	"
Zinc	8.32	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	107	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	18.5	0.0500	"	"	"	"	"	"	
Sodium	17.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.402	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV04@5'
2504194-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.7		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.193	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV05@5'
2504194-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/11/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0382	95.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/10/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.40	51.2 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV05@5'
2504194-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0219	65.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0248	74.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV05@5'
2504194-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.591	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	88.1	0.400	"	"	"	"	"	"
Cadmium	0.220	0.200	"	"	"	"	"	"
Copper	2.68	0.400	"	"	"	"	"	"
Lead	8.90	0.200	"	"	"	"	"	"
Nickel	1.64	0.400	"	"	"	"	"	"
Silver	0.0694	0.0200	"	"	"	"	"	"
Zinc	11.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	350	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	43.2	0.0500	"	"	"	"	"	"	
Sodium	15.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.207	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV05@5'
2504194-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.5	%	1	BID0632	04/11/25	04/11/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.238	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV-S1@4'
2504194-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/11/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/11/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.02	56.2 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV-S1@4'
2504194-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0297	89.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV-S1@4'
2504194-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.470	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	93.3	0.400	"	"	"	"	"	"
Cadmium	0.221	0.200	"	"	"	"	"	"
Copper	1.95	0.400	"	"	"	"	"	"
Lead	9.93	0.200	"	"	"	"	"	"
Nickel	1.45	0.400	"	"	"	"	"	"
Silver	0.0437	0.0200	"	"	"	"	"	"
Zinc	7.35	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.9	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	4.71	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.146	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 11:48**

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

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



CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV-S1@4'
2504194-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.8	%	1	BID0632	04/11/25	04/11/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.206	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV05-E@4'
2504194-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BID0621	04/10/25	04/11/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0386	96.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BID0619	04/10/25	04/11/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.22	73.8 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV05-E@4'
2504194-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID0749	04/14/25	05/07/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	64.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0253	76.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:40**

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

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV05-E@4'
2504194-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.700	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B
Barium	94.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.12	0.400	"	"	"	"	"	"
Lead	8.32	0.200	"	"	"	"	"	"
Nickel	1.79	0.400	"	"	"	"	"	"
Silver	0.0394	0.0200	"	"	"	"	"	"
Zinc	9.37	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	184	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	19.2	0.0500	"	"	"	"	"	"	
Sodium	20.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.379	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PWV05-E@4'
2504194-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.225	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG01@0-6"
2504194-15 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.602	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B	
Barium	101	0.400	"	"	"	"	"	"	
Cadmium	0.319	0.200	"	"	"	"	"	"	
Copper	3.15	0.400	"	"	"	"	"	"	
Lead	12.6	0.200	"	"	"	"	"	"	
Nickel	1.84	0.400	"	"	"	"	"	"	
Silver	0.104	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	69.1	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	23.2	0.0500	"	"	"	"	"	"	
Sodium	141	0.0500	"	"	"	"	"	"	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG01@0-6"
2504194-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.75	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.4		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.24	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG01@3'
2504194-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.24	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B	
Barium	162	0.400	"	"	"	"	"	"	
Cadmium	0.250	0.200	"	"	"	"	"	"	
Copper	2.55	0.400	"	"	"	"	"	"	
Lead	6.57	0.200	"	"	"	"	"	"	
Nickel	2.57	0.400	"	"	"	"	"	"	
Silver	0.0402	0.0200	"	"	"	"	"	"	
Zinc	7.18	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	64.9	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	6.34	0.0500	"	"	"	"	"	"	
Sodium	80.2	0.0500	"	"	"	"	"	"	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG01@3'
2504194-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.54	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.525	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG01@4.5'
2504194-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.724	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B	
Barium	79.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.84	0.400	"	"	"	"	"	"	
Lead	6.50	0.200	"	"	"	"	"	"	
Nickel	1.95	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.34	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	30.9	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	6.29	0.0500	"	"	"	"	"	"	
Sodium	74.6	0.0500	"	"	"	"	"	"	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG01@4.5'
2504194-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.20	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.486	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG02@0-6"
2504194-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.587	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B	
Barium	95.0	0.400	"	"	"	"	"	"	
Cadmium	0.263	0.200	"	"	"	"	"	"	
Copper	3.13	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	1.79	0.400	"	"	"	"	"	"	
Silver	0.0827	0.0200	"	"	"	"	"	"	
Zinc	16.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	78.3	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	29.1	0.0500	"	"	"	"	"	"	
Sodium	143	0.0500	"	"	"	"	"	"	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG02@0-6"
2504194-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.50	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.36	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.52		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG02@3'
2504194-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BID0650	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.06	0.200	mg/kg dry	1	BID0635	04/11/25	04/12/25	EPA 6020B	
Barium	122	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.94	0.400	"	"	"	"	"	"	
Lead	7.21	0.200	"	"	"	"	"	"	
Nickel	2.42	0.400	"	"	"	"	"	"	
Silver	0.0327	0.0200	"	"	"	"	"	"	
Zinc	7.33	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	59.9	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	6.92	0.0500	"	"	"	"	"	"	
Sodium	57.7	0.0500	"	"	"	"	"	"	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG02@3'
2504194-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/25 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.0		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.439	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG02@4.5'
2504194-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BID0651	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.11	0.200		mg/kg dry	1	BID0636	04/11/25	04/12/25	EPA 6020B	
Barium	127	0.400		"	"	"	"	"	"	
Cadmium	0.302	0.200		"	"	"	"	"	"	
Copper	4.94	0.400		"	"	"	"	"	"	
Lead	7.35	0.200		"	"	"	"	"	"	
Nickel	5.98	0.400		"	"	"	"	"	"	
Silver	0.0397	0.0200		"	"	"	"	"	"	
Zinc	18.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BID0656	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	37.6	0.0500		mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	7.16	0.0500		"	"	"	"	"	"	
Sodium	66.4	0.0500		"	"	"	"	"	"	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG02@4.5'
2504194-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.60	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.489	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG03@0-6"
2504194-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BID0651	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.05	0.200		mg/kg dry	1	BID0636	04/11/25	04/12/25	EPA 6020B	
Barium	80.2	0.400		"	"	"	"	"	"	
Cadmium	0.351	0.200		"	"	"	"	"	"	
Copper	9.04	0.400		"	"	"	"	"	"	
Lead	9.68	0.200		"	"	"	"	"	"	
Nickel	4.62	0.400		"	"	"	"	"	"	
Silver	0.0685	0.0200		"	"	"	"	"	"	
Zinc	47.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BID0657	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	282	0.0500		mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	61.3	0.0500		"	"	"	"	"	"	
Sodium	51.9	0.0500		"	"	"	"	"	"	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG03@0-6"
2504194-21 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.730	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.268	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG03@3'
2504194-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BID0651	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.64	0.200	mg/kg dry	1	BID0636	04/11/25	04/12/25	EPA 6020B	
Barium	52.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.84	0.400	"	"	"	"	"	"	
Lead	4.95	0.200	"	"	"	"	"	"	
Nickel	3.86	0.400	"	"	"	"	"	"	
Silver	0.0264	0.0200	"	"	"	"	"	"	
Zinc	16.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0657	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	266	0.0500	mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	45.7	0.0500	"	"	"	"	"	"	
Sodium	44.3	0.0500	"	"	"	"	"	"	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG03@3'
2504194-22 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/25 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.660	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.253	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG03@4.5'
2504194-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/25 13:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BID0651	04/11/25	04/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/25 13:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.00	0.200		mg/kg dry	1	BID0636	04/11/25	04/12/25	EPA 6020B	
Barium	93.6	0.400		"	"	"	"	"	"	
Cadmium	0.257	0.200		"	"	"	"	"	"	
Copper	5.21	0.400		"	"	"	"	"	"	
Lead	6.75	0.200		"	"	"	"	"	"	
Nickel	5.49	0.400		"	"	"	"	"	"	
Silver	0.0323	0.0200		"	"	"	"	"	"	
Zinc	18.5	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/10/25 13:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BID0657	04/11/25	04/11/25	Hach 8000	

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

Date Sampled: **04/10/25 13:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	49.8	0.0500		mg/L dry	1	BID0622	04/10/25	04/11/25	EPA 6020B	
Magnesium	7.23	0.0500		"	"	"	"	"	"	
Sodium	73.9	0.0500		"	"	"	"	"	"	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

BKG03@4.5'
2504194-23 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/25 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.59	0.00100	units	1	BID0703	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/25 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.9		%	1	BID0632	04/11/25	04/11/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/25 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.481	0.0100	mmhos/cm	1	BID0624	04/10/25	04/11/25	EPA 120.1	

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

Date Sampled: **04/10/25 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BID0623	04/10/25	04/11/25	EPA 9045D	

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BID0621 - EPA 5030 Soil MS

Blank (BID0621-BLK1)

Prepared: 04/10/25 Analyzed: 04/11/25

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.6	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

LCS (BID0621-BS1)

Prepared: 04/10/25 Analyzed: 04/11/25

Benzene	0.115	0.0020	mg/kg	0.100		115	70-130			
Toluene	0.110	0.0050	"	0.100		110	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.212	0.010	"	0.200		106	70-130			
o-Xylene	0.106	0.0050	"	0.100		106	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
Naphthalene	0.107	0.0038	"	0.100		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400		98.5	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

Matrix Spike (BID0621-MS1)

Source: 2504194-03

Prepared: 04/10/25 Analyzed: 04/11/25

Benzene	0.0890	0.0020	mg/kg	0.100	ND	89.0	70-130			
Toluene	0.0854	0.0050	"	0.100	ND	85.4	70-130			
Ethylbenzene	0.0859	0.0050	"	0.100	ND	85.9	70-130			
m,p-Xylene	0.173	0.010	"	0.200	ND	86.7	70-130			
o-Xylene	0.0851	0.0050	"	0.100	ND	85.1	70-130			
1,2,4-Trimethylbenzene	0.0891	0.0050	"	0.100	ND	89.1	70-130			
1,3,5-Trimethylbenzene	0.0889	0.0050	"	0.100	ND	88.9	70-130			
Naphthalene	0.0687	0.0038	"	0.100	ND	68.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.8	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BID0621 - EPA 5030 Soil MS

Matrix Spike Dup (BID0621-MSD1)		Source: 2504194-03			Prepared: 04/10/25 Analyzed: 04/11/25					
Benzene	0.0971	0.0020	mg/kg	0.100	ND	97.1	70-130	8.77	30	
Toluene	0.0912	0.0050	"	0.100	ND	91.2	70-130	6.59	30	
Ethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130	4.80	30	
m,p-Xylene	0.178	0.010	"	0.200	ND	89.2	70-130	2.78	30	
o-Xylene	0.0893	0.0050	"	0.100	ND	89.3	70-130	4.88	30	
1,2,4-Trimethylbenzene	0.0917	0.0050	"	0.100	ND	91.7	70-130	2.89	30	
1,3,5-Trimethylbenzene	0.0914	0.0050	"	0.100	ND	91.4	70-130	2.83	30	
Naphthalene	0.0758	0.0038	"	0.100	ND	75.8	70-130	9.84	30	
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0400		97.6	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

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Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BID0619 - EPA 3550A

Blank (BID0619-BLK1)

Prepared: 04/10/25 Analyzed: 04/11/25

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.5		"	12.5		99.6	50-140			

LCS (BID0619-BS1)

Prepared: 04/10/25 Analyzed: 04/11/25

C10-C28 (DRO)	522	50	mg/kg	500		104	50-140			
Surrogate: o-Terphenyl	12.2		"	12.5		97.8	50-140			

Matrix Spike (BID0619-MS1)

Source: 2504194-01

Prepared: 04/10/25 Analyzed: 04/11/25

C10-C28 (DRO)	776	50	mg/kg	500	283	98.6	50-140			
Surrogate: o-Terphenyl	9.32		"	12.5		74.5	50-140			

Matrix Spike Dup (BID0619-MSD1)

Source: 2504194-01

Prepared: 04/10/25 Analyzed: 04/11/25

C10-C28 (DRO)	655	50	mg/kg	500	283	74.5	50-140	16.8	20	
Surrogate: o-Terphenyl	8.32		"	12.5		66.6	50-140			

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Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BID0749 - EPA 5030 Soil MS

Blank (BID0749-BLK1)

Prepared: 04/14/25 Analyzed: 05/06/25

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0267		"	0.0333		80.1	40-140			
Surrogate: Fluoranthene-d10	0.0304		"	0.0333		91.2	40-140			

LCS (BID0749-BS1)

Prepared: 04/14/25 Analyzed: 05/06/25

Acenaphthene	0.0248	0.00500	mg/kg	0.0333		74.4	40-140			
Anthracene	0.0264	0.00500	"	0.0333		79.1	40-140			
Benzo (a) anthracene	0.0275	0.00500	"	0.0333		82.6	40-140			
Benzo (a) pyrene	0.0268	0.00500	"	0.0333		80.3	40-140			
Benzo (b) fluoranthene	0.0286	0.00500	"	0.0333		85.9	40-140			
Benzo (k) fluoranthene	0.0276	0.00500	"	0.0333		82.9	40-140			
Chrysene	0.0250	0.00500	"	0.0333		74.9	40-140			
Dibenz (a,h) anthracene	0.0239	0.00500	"	0.0333		71.7	40-140			
Fluoranthene	0.0263	0.00500	"	0.0333		78.9	40-140			
Fluorene	0.0256	0.00500	"	0.0333		76.9	40-140			
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333		52.7	40-140			
Pyrene	0.0274	0.00500	"	0.0333		82.1	40-140			
1-Methylnaphthalene	0.0238	0.00500	"	0.0333		71.3	40-140			
2-Methylnaphthalene	0.0276	0.00500	"	0.0333		82.7	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0491		"	0.0333		147	40-140			Z-01
Surrogate: Fluoranthene-d10	0.0579		"	0.0333		174	40-140			Z-01

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BID0749 - EPA 5030 Soil MS

Matrix Spike (BID0749-MS1)		Source: 2504193-01			Prepared: 04/14/25 Analyzed: 05/06/25					
Acenaphthene	0.0187	0.00500	mg/kg	0.0333	ND	56.1	40-140			
Anthracene	0.0195	0.00500	"	0.0333	ND	58.6	40-140			
Benzo (a) anthracene	0.0196	0.00500	"	0.0333	ND	58.7	40-140			
Benzo (a) pyrene	0.0183	0.00500	"	0.0333	ND	54.9	40-140			
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	40-140			
Benzo (k) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.8	40-140			
Chrysene	0.0179	0.00500	"	0.0333	ND	53.7	40-140			
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	42.9	40-140			
Fluoranthene	0.0188	0.00500	"	0.0333	ND	56.4	40-140			
Fluorene	0.0192	0.00500	"	0.0333	ND	57.5	40-140			
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.7	40-140			
Pyrene	0.0202	0.00500	"	0.0333	ND	60.7	40-140			
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	55.0	40-140			
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.5	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0389		"	0.0333		117	40-140			
Surrogate: Fluoranthene-d10	0.0438		"	0.0333		131	40-140			

Matrix Spike Dup (BID0749-MSD1)		Source: 2504193-01			Prepared: 04/14/25 Analyzed: 05/06/25					
Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	66.0	40-140	16.2	30	
Anthracene	0.0233	0.00500	"	0.0333	ND	69.8	40-140	17.4	30	
Benzo (a) anthracene	0.0243	0.00500	"	0.0333	ND	72.8	40-140	21.4	30	
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	ND	67.8	40-140	20.9	30	
Benzo (b) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.6	40-140	21.8	30	
Benzo (k) fluoranthene	0.0232	0.00500	"	0.0333	ND	69.6	40-140	20.4	30	
Chrysene	0.0221	0.00500	"	0.0333	ND	66.4	40-140	21.2	30	
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333	ND	60.4	40-140	33.7	30	QR-02
Fluoranthene	0.0232	0.00500	"	0.0333	ND	69.7	40-140	21.1	30	
Fluorene	0.0227	0.00500	"	0.0333	ND	68.2	40-140	17.0	30	
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333	ND	45.0	40-140	0.629	30	
Pyrene	0.0247	0.00500	"	0.0333	ND	74.0	40-140	19.9	30	
1-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.4	40-140	21.7	30	
2-Methylnaphthalene	0.0246	0.00500	"	0.0333	ND	73.7	40-140	21.3	30	
Surrogate: 2-Methylnaphthalene-d10	0.0481		"	0.0333		144	40-140			Z-01
Surrogate: Fluoranthene-d10	0.0509		"	0.0333		153	40-140			Z-01

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

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

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

Batch BID0650 - EPA 3050B

Blank (BID0650-BLK1)

Prepared: 04/11/25 Analyzed: 04/12/25

Boron ND 2.00 mg/L

LCS (BID0650-BS1)

Prepared: 04/11/25 Analyzed: 04/12/25

Boron 4.45 2.00 mg/L 5.00 89.1 80-120

Duplicate (BID0650-DUP1)

Source: 2504193-01

Prepared: 04/11/25 Analyzed: 04/12/25

Boron 0.399 2.00 mg/L 0.461 14.6 20

Matrix Spike (BID0650-MS1)

Source: 2504193-01

Prepared: 04/11/25 Analyzed: 04/12/25

Boron 4.30 2.00 mg/L 4.99 0.461 77.1 75-125

Matrix Spike Dup (BID0650-MSD1)

Source: 2504193-01

Prepared: 04/11/25 Analyzed: 04/12/25

Boron 4.38 2.00 mg/L 4.99 0.461 78.7 75-125 1.81 25

Batch BID0651 - EPA 3050B

Blank (BID0651-BLK1)

Prepared: 04/11/25 Analyzed: 04/12/25

Boron ND 2.00 mg/L

LCS (BID0651-BS1)

Prepared: 04/11/25 Analyzed: 04/12/25

Boron 4.54 2.00 mg/L 5.00 90.8 80-120

Duplicate (BID0651-DUP1)

Source: 2504177-02

Prepared: 04/11/25 Analyzed: 04/12/25

Boron 0.139 2.00 mg/L 0.190 30.6 20 QR-01

Matrix Spike (BID0651-MS1)

Source: 2504177-02

Prepared: 04/11/25 Analyzed: 04/12/25

Boron 4.49 2.00 mg/L 5.02 0.190 85.8 75-125

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CDH Consulting
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Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]

Project Manager: David Stainback

Reported:

05/09/25 10:49

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

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

Batch BID0651 - EPA 3050B

Matrix Spike Dup (BID0651-MSD1)

Source: 2504177-02

Prepared: 04/11/25 Analyzed: 04/12/25

Boron	4.55	2.00	mg/L	5.02	0.190	87.0	75-125	1.28	25	
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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BID0635 - EPA 3050B

Blank (BID0635-BLK1)

Prepared: 04/11/25 Analyzed: 04/12/25

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"
Selenium	ND	0.260	"

LCS (BID0635-BS1)

Prepared: 04/11/25 Analyzed: 04/12/25

Arsenic	41.3	0.200	mg/kg wet	40.0	103	80-120
Barium	41.7	0.400	"	40.0	104	80-120
Cadmium	2.07	0.200	"	2.00	104	80-120
Copper	44.6	0.400	"	40.0	111	80-120
Lead	22.5	0.200	"	20.0	112	80-120
Nickel	44.0	0.400	"	40.0	110	80-120
Silver	2.06	0.0200	"	2.00	103	80-120
Zinc	43.9	0.400	"	40.0	110	80-120
Selenium	4.43	0.260	"	4.00	111	80-120

Duplicate (BID0635-DUP1)

Source: 2504194-01

Prepared: 04/11/25 Analyzed: 04/12/25

Arsenic	0.660	0.200	mg/kg dry	0.599	9.69	20
Barium	109	0.400	"	92.8	16.3	20
Cadmium	0.226	0.200	"	0.200	12.1	20
Copper	2.22	0.400	"	2.01	9.61	20
Lead	8.75	0.200	"	7.40	16.7	20
Nickel	1.61	0.400	"	1.48	7.90	20
Silver	0.0318	0.0200	"	0.0267	17.4	20
Zinc	8.14	0.400	"	7.40	9.54	20
Selenium	ND	0.260	"	ND		20

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BID0635 - EPA 3050B

Matrix Spike (BID0635-MS1)		Source: 2504194-01			Prepared: 04/11/25 Analyzed: 04/12/25					
Arsenic	11.2	0.200	mg/kg dry	46.4	0.599	22.8	75-125			QM-05
Barium	161	0.400	"	46.4	92.8	147	75-125			QM-05
Cadmium	2.71	0.200	"	2.32	0.200	108	75-125			
Copper	13.4	0.400	"	46.4	2.01	24.5	75-125			QM-05
Lead	31.8	0.200	"	23.2	7.40	105	75-125			
Nickel	12.9	0.400	"	46.4	1.48	24.6	75-125			QM-05
Silver	2.48	0.0200	"	2.32	0.0267	106	75-125			
Zinc	19.8	0.400	"	46.4	7.40	26.6	75-125			QM-05
Selenium	5.32	0.260	"	4.64	ND	115	75-125			

Matrix Spike Dup (BID0635-MSD1)		Source: 2504194-01			Prepared: 04/11/25 Analyzed: 04/12/25					
Arsenic	11.3	0.200	mg/kg dry	46.8	0.599	22.8	75-125	0.511	25	QM-05
Barium	162	0.400	"	46.8	92.8	147	75-125	0.490	25	QM-05
Cadmium	2.76	0.200	"	2.34	0.200	109	75-125	1.88	25	
Copper	13.5	0.400	"	46.8	2.01	24.6	75-125	1.06	25	QM-05
Lead	31.9	0.200	"	23.4	7.40	105	75-125	0.344	25	
Nickel	13.1	0.400	"	46.8	1.48	24.8	75-125	1.28	25	QM-05
Silver	2.47	0.0200	"	2.34	0.0267	104	75-125	0.400	25	
Zinc	20.1	0.400	"	46.8	7.40	27.2	75-125	1.92	25	QM-05
Selenium	5.00	0.260	"	4.68	ND	107	75-125	6.18	25	

Batch BID0636 - EPA 3050B

Blank (BID0636-BLK1)		Prepared: 04/11/25 Analyzed: 04/12/25								
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

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Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BID0636 - EPA 3050B

LCS (BID0636-BS1)

Prepared: 04/11/25 Analyzed: 04/15/25

Arsenic	38.3	0.200	mg/kg wet	40.7		94.2	80-120			
Barium	39.4	0.400	"	40.7		97.0	80-120			
Cadmium	1.87	0.200	"	2.03		91.8	80-120			
Copper	38.3	0.400	"	40.7		94.1	80-120			
Lead	19.8	0.200	"	20.3		97.3	80-120			
Nickel	37.8	0.400	"	40.7		93.1	80-120			
Silver	1.89	0.0200	"	2.03		93.2	80-120			
Zinc	36.9	0.400	"	40.7		90.8	80-120			
Selenium	4.21	0.260	"	4.07		104	80-120			

Duplicate (BID0636-DUP1)

Source: 2504190-01

Prepared: 04/11/25 Analyzed: 04/15/25

Arsenic	0.794	0.200	mg/kg dry		0.631			22.8	20	QR-04
Barium	35.3	0.400	"		28.2			22.3	20	QR-04
Cadmium	0.0980	0.200	"		0.0666			38.1	20	QR-01
Copper	2.08	0.400	"		1.63			24.1	20	QR-04
Lead	4.34	0.200	"		3.44			23.3	20	QR-04
Nickel	1.32	0.400	"		1.16			12.4	20	
Silver	0.0287	0.0200	"		0.0218			27.5	20	QR-04
Zinc	5.66	0.400	"		5.88			3.83	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BID0636-MS1)

Source: 2504190-01

Prepared: 04/11/25 Analyzed: 04/15/25

Arsenic	14.6	0.200	mg/kg dry	43.3	0.631	32.4	75-125			QM-05
Barium	79.4	0.400	"	43.3	28.2	118	75-125			
Cadmium	2.18	0.200	"	2.16	0.0666	97.9	75-125			
Copper	15.6	0.400	"	43.3	1.63	32.2	75-125			QM-05
Lead	24.9	0.200	"	21.6	3.44	99.3	75-125			
Nickel	15.0	0.400	"	43.3	1.16	32.0	75-125			QM-05
Silver	2.17	0.0200	"	2.16	0.0218	99.3	75-125			
Zinc	19.9	0.400	"	43.3	5.88	32.3	75-125			QM-05
Selenium	4.77	0.260	"	4.33	ND	110	75-125			

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BID0636 - EPA 3050B

Matrix Spike Dup (BID0636-MSD1)		Source: 2504190-01			Prepared: 04/11/25 Analyzed: 04/15/25					
Arsenic	13.2	0.200	mg/kg dry	42.2	0.631	29.8	75-125	10.2	25	QM-05
Barium	79.5	0.400	"	42.2	28.2	121	75-125	0.153	25	
Cadmium	1.94	0.200	"	2.11	0.0666	88.7	75-125	11.9	25	
Copper	14.3	0.400	"	42.2	1.63	29.9	75-125	8.61	25	QM-05
Lead	22.3	0.200	"	21.1	3.44	89.2	75-125	11.2	25	
Nickel	13.6	0.400	"	42.2	1.16	29.4	75-125	10.1	25	QM-05
Silver	1.90	0.0200	"	2.11	0.0218	88.9	75-125	13.3	25	
Zinc	18.2	0.400	"	42.2	5.88	29.1	75-125	8.86	25	QM-05
Selenium	4.71	0.260	"	4.22	ND	111	75-125	1.44	25	

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Project: Chevron - Mosier K23-21D Tank Battery
Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Hexavalent Chromium by HACH M8023 - Quality Control
Summit Scientific

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

Batch BID0656 - 3060A Mod

Blank (BID0656-BLK1)					Prepared & Analyzed: 04/11/25					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BID0656-BS1)					Prepared & Analyzed: 04/11/25					
Chromium, Hexavalent	24.8	0.30	mg/kg wet	25.0		99.2	80-120			
Duplicate (BID0656-DUP1)					Source: 2504194-01		Prepared & Analyzed: 04/11/25			
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BID0656-MS1)					Source: 2504194-01		Prepared & Analyzed: 04/11/25			
Chromium, Hexavalent	20.8	0.30	mg/kg dry	29.5	ND	70.6	75-125			QM-05
Matrix Spike Dup (BID0656-MSD1)					Source: 2504194-01		Prepared & Analyzed: 04/11/25			
Chromium, Hexavalent	21.0	0.30	mg/kg dry	29.8	ND	70.4	75-125	0.763	20	QM-05

Batch BID0657 - 3060A Mod

Blank (BID0657-BLK1)					Prepared & Analyzed: 04/11/25					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BID0657-BS1)					Prepared & Analyzed: 04/11/25					
Chromium, Hexavalent	23.8	0.30	mg/kg wet	25.0		95.0	80-120			
Duplicate (BID0657-DUP1)					Source: 2504104-01		Prepared & Analyzed: 04/11/25			
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BID0657-MS1)					Source: 2504104-01		Prepared & Analyzed: 04/11/25			
Chromium, Hexavalent	29.3	0.30	mg/kg dry	29.8	ND	98.4	75-125			

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Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Hexavalent Chromium by HACH M8023 - Quality Control
Summit Scientific

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

Batch BID0657 - 3060A Mod

Matrix Spike Dup (BID0657-MSD1)		Source: 2504104-01			Prepared & Analyzed: 04/11/25						
Chromium, Hexavalent		26.4	0.30	mg/kg dry	28.6	ND	92.2	75-125	10.5	20	

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Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]

Project Manager: David Stainback

Reported:

05/09/25 10:49

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

Summit Scientific

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

Batch BID0622 - General Preparation

Blank (BID0622-BLK1)

Prepared: 04/10/25 Analyzed: 04/11/25

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

LCS (BID0622-BS1)

Prepared: 04/10/25 Analyzed: 04/11/25

Calcium	4.76	0.0500	mg/L wet	5.00	95.3	70-130
Magnesium	5.77	0.0500	"	5.00	115	70-130
Sodium	5.34	0.0500	"	5.00	107	70-130

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Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

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

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

Batch BID0632 - General Preparation

Duplicate (BID0632-DUP1)		Source: 2504194-01			Prepared & Analyzed: 04/11/25					
% Solids	88.3		%		88.3			0.0623	20	

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Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]

Project Manager: David Stainback

Reported:
05/09/25 10:49

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BID0624 - General Preparation

Blank (BID0624-BLK1)

Prepared: 04/10/25 Analyzed: 04/11/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BID0624-BS1)

Prepared: 04/10/25 Analyzed: 04/11/25

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.5 95-105

Duplicate (BID0624-DUP1)

Source: 2504193-01

Prepared: 04/10/25 Analyzed: 04/11/25

Specific Conductance (EC) 0.537 0.0100 mmhos/cm 0.548 1.99 20

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Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]

Project Manager: David Stainback

Reported:

05/09/25 10:49

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

Summit Scientific

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

Batch BID0623 - General Preparation

LCS (BID0623-BS1)

Prepared: 04/10/25 Analyzed: 04/11/25

pH	9.14	pH Units	9.18	99.6	95-105
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Duplicate (BID0623-DUP1)

Source: 2504193-01

Prepared: 04/10/25 Analyzed: 04/11/25

pH	8.26	pH Units	8.48	2.63	20
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Project: Chevron - Mosier K23-21D Tank Battery

Project Number: [none]
Project Manager: David Stainback

Reported:
05/09/25 10:49

Notes and Definitions

Z-01	During preparation surrogate was added twice. Surrogate value is within new limits, data quality is unaffected
S-04	A sample matrix effect prevented complete surrogate recovery.
R-05	The reporting limit for this sample has been raised due to the presence of high levels of non-target analytes.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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