

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 25, 2024

AJ Engelhardt

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Chevron - Hoffman C02-65HN Tank Battery

Work Order #2410302

Enclosed are the results of analyses for samples received by Summit Scientific on 10/17/24 17:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury

President



Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

### ANALYTICAL REPORT FOR SAMPLES

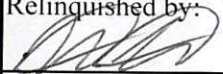
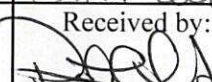
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0-6"	2410302-01	Soil	10/17/24 08:13	10/17/24 17:51
AST02@0-6"	2410302-02	Soil	10/17/24 08:15	10/17/24 17:51
AST03@0-6"	2410302-03	Soil	10/17/24 08:17	10/17/24 17:51
PWV01-B@4'	2410302-04	Soil	10/17/24 11:51	10/17/24 17:51
PWV01-E@3'	2410302-05	Soil	10/17/24 11:42	10/17/24 17:51
SEP01-DL@3'	2410302-06	Soil	10/17/24 10:43	10/17/24 17:51
SEP01-FL@3'	2410302-07	Soil	10/17/24 10:48	10/17/24 17:51
SEP02-DL@3'	2410302-08	Soil	10/17/24 10:52	10/17/24 17:51
SEP02-FL@3'	2410302-09	Soil	10/17/24 10:55	10/17/24 17:51
SEP03-DL@3'	2410302-10	Soil	10/17/24 10:58	10/17/24 17:51
SEP03-FL@3'	2410302-11	Soil	10/17/24 11:00	10/17/24 17:51
BKG01@0-6"	2410302-12	Soil	10/17/24 12:40	10/17/24 17:51
BKG01@3'	2410302-13	Soil	10/17/24 12:41	10/17/24 17:51
BKG01@4'	2410302-14	Soil	10/17/24 12:42	10/17/24 17:51

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: Chevron/Tasman	Project Manager: AJ Engelhardt	Company: Chevron
Address: 6855 W. 119th Avenue	E-Mail: tas-chevron-3@tasman-geo.com	Project Name/Location: Hoffman CO2-65HN Tank Battery
City/State/Zip: Broomfield, CO 80020		AFE#: UWRWE-11858-ABN
Phone: 978-857-4408	Project Name: Hoffman CO2-65HN Tank Battery	PO/Billing Codes:
Sampler Name: Matthew Wentzel	Project Number:	Contact: Miguel Barron

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915-VOC	915-PAH	915-TPH	pH, EC, SAR	Boron		915-Metals	ON - HOLD
1	AST01@0-6"	10-17-29	0813	3			X			X			X	X	X	X	X	X		
2	AST02@0-6"		0815																	
3	AST03@0-6"		0817																	
4	PWV01-B@4'		1151																	
5	PWV01-E@3'		1142																	
6	SEP01-DL@3'		1043																	
7	SEP01-FL@3'		1048																	
8	SEP02-DL@3'		1052																	
9	SEP02-FL@3'		1055																	
10	SEP03-DL@3'		1058																	
11	SEP03-FL@3'		1100																	
12	BKG01@0-6"		1240																	
13	BKG01@3'		1241																	
14	BKG01@4'		1242																	
15	PWV01-N@3'		1139																	X

Relinquished by: 	Date/Time: 10-17-29 1430	Received by: Tasman Lockbox	Date/Time: 10-17-29 1430	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 10-17-29 1751	Received by: 	Date/Time: 10-17-29 1751	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 9.7	Corrected Temperature: 8	IR gun #:		HNO3 lot #:		



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

Lab ID	Page 2 of 2
2410302-2	

	<b>Send Data To:</b>	<b>Send Invoice To:</b>
Client: Chevron/Tasman	Project Manager: AJ Engelhardt	Company: Chevron
Address: 6855 W. 119th Avenue	E-Mail: tas-chevron-3@tasman-geo.com	Project Name/Location: Heffman CO2-65HN Tank Battery
City/State/Zip: Broomfield, CO 80020		AFE#: UWRWF-A1858-ABN
Phone: 978-857-4408	Project Name: Heffman CO2-65HN Tank Battery	PO/Billing Codes:
Sampler Name: Matthew Wentzel	Project Number:	Contact: Miguel Barran

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915-VOC	915-PAH	915-TPH	pH, EC, SAR		Boron	915-Metals
1	PWV01-S @ 3'	10-17-29	1145	3			X			X								X	
2	PWV01-W @ 3'	10-17-29	1148	3			X			X								X	
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 10-17-29 1430	Received by: Tasman Lockbox	Date/Time: 10-17-29 1430	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 10/17/29 1751	Received by:	Date/Time: 10/17/29 1751	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 9.7	Corrected Temperature:	IR gun #:	HNO3 lot #:			

S<sub>2</sub>

2/2  
Sample Receipt Checklist

S2 Work Order# 2410302

Client: Cherwin Tisman Client Project ID: Hoffman CR2-60544 Tank Bottom

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

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

Temp (°C)  Thermometer #

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

Additional Comments (if any):

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

AS  
Custodian Printed Name

10/17/24  
Date/Time



Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST01@0-6"**  
**2410302-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0363	90.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	96.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.86	54.9 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST01@0-6"**  
**2410302-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	54.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.4 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 08:13**

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

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST01@0-6"**  
**2410302-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.12	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/24/24	EPA 6020B	
Barium	48.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.96	0.400	"	"	"	"	"	"	
Lead	3.59	0.200	"	"	"	"	"	"	
Nickel	3.11	0.400	"	"	"	"	"	"	
Silver	0.0233	0.0200	"	"	"	"	"	"	
Zinc	14.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.1	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	13.3	0.0500	"	"	"	"	"	"	
Sodium	104	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.24	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST01@0-6"**  
**2410302-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.903	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 08:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST02@0-6"**  
**2410302-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0346	86.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.70	61.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST02@0-6"**  
**2410302-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	64.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0257	77.2 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST02@0-6"**  
**2410302-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.10	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/24/24	EPA 6020B	
Barium	70.6	0.400	"	"	"	"	"	"	
Cadmium	0.245	0.200	"	"	"	"	"	"	
Copper	8.87	0.400	"	"	"	"	"	"	
Lead	14.1	0.200	"	"	"	"	"	"	
Nickel	4.69	0.400	"	"	"	"	"	"	
Silver	0.143	0.0200	"	"	"	"	"	"	
Zinc	29.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.4	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	7.82	0.0500	"	"	"	"	"	"	
Sodium	46.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.19	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST02@0-6"**  
**2410302-02 (Soil)**

**Summit Scientific**

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

% Solids	91.7	%	1	BHJ0818	10/21/24	10/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.383</b>	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.65</b>		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

Summit Scientific

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Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST03@0-6"**  
**2410302-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0378	94.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.3	82.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST03@0-6"**  
**2410302-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.2 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST03@0-6"**  
**2410302-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.20	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/24/24	EPA 6020B	
Barium	54.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.75	0.400	"	"	"	"	"	"	
Lead	6.45	0.200	"	"	"	"	"	"	
Nickel	3.72	0.400	"	"	"	"	"	"	
Silver	0.0490	0.0200	"	"	"	"	"	"	
Zinc	18.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.6	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	16.8	0.0500	"	"	"	"	"	"	
Sodium	60.3	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.82	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**AST03@0-6"**  
**2410302-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	93.3			%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.700	0.0100		mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 08:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.41			pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**PWV01-B@4'**  
**2410302-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0363	90.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	96.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.38	59.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**PWV01-B@4'**  
**2410302-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0226	67.9 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**PWV01-B@4'**  
**2410302-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.63	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/24/24	EPA 6020B	
Barium	39.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.96	0.400	"	"	"	"	"	"	
Lead	3.31	0.200	"	"	"	"	"	"	
Nickel	3.06	0.400	"	"	"	"	"	"	
Silver	0.0209	0.0200	"	"	"	"	"	"	
Zinc	13.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.6	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	15.3	0.0500	"	"	"	"	"	"	
Sodium	34.3	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

Summit Scientific

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Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**PWV01-B@4'**  
**2410302-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	<b>96.3</b>			%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.606</b>	0.0100		mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 11:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	<b>8.29</b>			pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**PWV01-E@3'**  
**2410302-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0363	90.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.4 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.2	81.5 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**PWV01-E@3'**  
**2410302-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	54.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.1 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**PWV01-E@3'**  
**2410302-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.43	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/24/24	EPA 6020B	
Barium	35.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.04	0.400	"	"	"	"	"	"	
Lead	3.06	0.200	"	"	"	"	"	"	
Nickel	2.80	0.400	"	"	"	"	"	"	
Silver	0.0207	0.0200	"	"	"	"	"	"	
Zinc	11.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.6	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	9.43	0.0500	"	"	"	"	"	"	
Sodium	20.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.761	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**PWV01-E@3'**  
**2410302-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	95.4			%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.453	0.0100		mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.33			pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP01-DL@3'**  
**2410302-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0378	94.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.5 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.01	72.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP01-DL@3'**  
**2410302-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0162	48.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.3 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP01-DL@3'**  
**2410302-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.83	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/24/24	EPA 6020B	
Barium	28.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.70	0.400	"	"	"	"	"	"	
Lead	2.94	0.200	"	"	"	"	"	"	
Nickel	3.48	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.5	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	5.93	0.0500	"	"	"	"	"	"	
Sodium	2.92	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.146	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP01-DL@3'**  
**2410302-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	96.9			%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.168	0.0100		mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.77			pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP01-FL@3'**  
**2410302-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.7 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.00	64.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP01-FL@3'**  
**2410302-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0212	63.5 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP01-FL@3'**  
**2410302-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.14	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/24/24	EPA 6020B	
Barium	37.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.81	0.400	"	"	"	"	"	"	
Lead	3.86	0.200	"	"	"	"	"	"	
Nickel	3.52	0.400	"	"	"	"	"	"	
Silver	0.0208	0.0200	"	"	"	"	"	"	
Zinc	14.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.0	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	14.0	0.0500	"	"	"	"	"	"	
Sodium	1.34	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0583	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP01-FL@3'**  
**2410302-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	94.8			%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.108	0.0100		mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	5.86			pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP02-DL@3'**  
**2410302-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.5 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.73	69.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP02-DL@3'**  
**2410302-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0209	62.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0241	72.2 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP02-DL@3'**  
**2410302-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.17	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/25/24	EPA 6020B	
Barium	26.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.11	0.400	"	"	"	"	"	"	
Lead	2.75	0.200	"	"	"	"	"	"	
Nickel	2.32	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.24	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.1	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	20.3	0.0500	"	"	"	"	"	"	
Sodium	1.22	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0409	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP02-DL@3'**  
**2410302-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	<b>94.0</b>			%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.104</b>	0.0100		mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	<b>8.84</b>			pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP02-FL@3'**  
**2410302-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0379	94.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.69	69.5 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP02-FL@3'**  
**2410302-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0291	87.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0336	101 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP02-FL@3'**  
**2410302-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.54	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/25/24	EPA 6020B	
Barium	42.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.58	0.400	"	"	"	"	"	"	
Lead	3.89	0.200	"	"	"	"	"	"	
Nickel	3.46	0.400	"	"	"	"	"	"	
Silver	0.0222	0.0200	"	"	"	"	"	"	
Zinc	13.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.2	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	4.82	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.168	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP02-FL@3'**  
**2410302-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.6		%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.128	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP03-DL@3'**  
**2410302-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0377	94.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.43	59.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP03-DL@3'**  
**2410302-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0260	77.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0294	88.3 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP03-DL@3'**  
**2410302-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.62	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/25/24	EPA 6020B	
Barium	36.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.17	0.400	"	"	"	"	"	"	
Lead	3.51	0.200	"	"	"	"	"	"	
Nickel	2.93	0.400	"	"	"	"	"	"	
Silver	0.0242	0.0200	"	"	"	"	"	"	
Zinc	12.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.0	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	15.6	0.0500	"	"	"	"	"	"	
Sodium	1.39	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0532	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP03-DL@3'**  
**2410302-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0		%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.246	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP03-FL@3'**  
**2410302-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	94.9 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.28	58.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
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Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP03-FL@3'**  
**2410302-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0272	81.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0316	94.8 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP03-FL@3'**  
**2410302-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.77	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/25/24	EPA 6020B	
Barium	38.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.22	0.400	"	"	"	"	"	"	
Lead	4.02	0.200	"	"	"	"	"	"	
Nickel	3.27	0.400	"	"	"	"	"	"	
Silver	0.0233	0.0200	"	"	"	"	"	"	
Zinc	13.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.9	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	9.52	0.0500	"	"	"	"	"	"	
Sodium	2.59	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.108	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**SEP03-FL@3'**  
**2410302-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	94.8			%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.777	0.0100		mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.07			pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@0-6''**  
**2410302-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0376	94.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0383	95.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 12:40**

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

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@0-6''**  
**2410302-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0242	72.5 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@0-6''**  
**2410302-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.23	0.200	mg/kg dry	1	BHJ1014	10/24/24	10/25/24	EPA 6020B	
Barium	63.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.49	0.400	"	"	"	"	"	"	
Lead	6.44	0.200	"	"	"	"	"	"	
Nickel	4.02	0.400	"	"	"	"	"	"	
Silver	0.0310	0.0200	"	"	"	"	"	"	
Zinc	18.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.4	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	14.0	0.0500	"	"	"	"	"	"	
Sodium	56.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.75	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@0-6''**  
**2410302-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BHJ0818	10/21/24	10/22/24	Calculation	

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

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.98	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@3'**  
**2410302-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.32	74.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@3'**  
**2410302-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.5 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@3'**  
**2410302-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.18	0.200	mg/kg dry	1	BHJ1015	10/24/24	10/24/24	EPA 6020B
Barium	95.2	0.400	"	"	"	"	"	"
Cadmium	0.315	0.200	"	"	"	"	"	"
Copper	6.98	0.400	"	"	"	"	"	"
Lead	10.7	0.200	"	"	"	"	"	"
Nickel	6.36	0.400	"	"	"	"	"	"
Silver	0.0920	0.0200	"	"	"	"	"	"
Zinc	25.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 10/17/24 12:41

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: 10/17/24 12:41

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	180	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	64.7	0.0500	"	"	"	"	"	"	
Sodium	361	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 10/17/24 12:41

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.87	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

Date Sampled: 10/17/24 12:41

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.  
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Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@3'**  
**2410302-13 (Soil)**

**Summit Scientific**

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

% Solids	91.5	%	1	BHJ0818	10/21/24	10/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.72	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@4'**  
**2410302-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0775	10/18/24	10/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0370	92.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0378	94.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0770	10/18/24	10/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.02	64.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Hoffman C02-65HN Tank Battery  
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Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@4'**  
**2410302-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0821	10/21/24	10/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.2 %	40-150		"	"	"	"	

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

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0957	10/23/24	10/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@4'**  
**2410302-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.84	0.200	mg/kg dry	1	BHJ1015	10/24/24	10/24/24	EPA 6020B
Barium	76.5	0.400	"	"	"	"	"	"
Cadmium	0.219	0.200	"	"	"	"	"	"
Copper	5.56	0.400	"	"	"	"	"	"
Lead	7.16	0.200	"	"	"	"	"	"
Nickel	4.96	0.400	"	"	"	"	"	"
Silver	0.0672	0.0200	"	"	"	"	"	"
Zinc	21.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 10/17/24 12:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ1009	10/24/24	10/24/24	EPA 7196A	

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

Date Sampled: 10/17/24 12:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	79.5	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	30.8	0.0500	"	"	"	"	"	"	
Sodium	228	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 10/17/24 12:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.50	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

Date Sampled: 10/17/24 12:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**BKG01@4'**  
**2410302-14 (Soil)**

**Summit Scientific**

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

% Solids	90.7	%	1	BHJ0818	10/21/24	10/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.71	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

#### Summit Scientific

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

#### Batch BHJ0775 - EPA 5030 Soil MS

##### Blank (BHJ0775-BLK1)

Prepared: 10/18/24 Analyzed: 10/19/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0336		"	0.0400		84.1	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400		93.7	50-150			

##### LCS (BHJ0775-BS1)

Prepared: 10/18/24 Analyzed: 10/19/24

Benzene	0.0937	0.0020	mg/kg	0.100		93.7	70-130			
Toluene	0.0983	0.0050	"	0.100		98.3	70-130			
Ethylbenzene	0.0990	0.0050	"	0.100		99.0	70-130			
m,p-Xylene	0.206	0.010	"	0.200		103	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.0990	0.0050	"	0.100		99.0	70-130			
Naphthalene	0.0884	0.0038	"	0.100		88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0330		"	0.0400		82.4	50-150			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	50-150			

##### Matrix Spike (BHJ0775-MS1)

Source: 2410298-30

Prepared: 10/18/24 Analyzed: 10/19/24

Benzene	0.0839	0.0020	mg/kg	0.100	ND	83.9	70-130			
Toluene	0.0851	0.0050	"	0.100	ND	85.1	70-130			
Ethylbenzene	0.0878	0.0050	"	0.100	ND	87.8	70-130			
m,p-Xylene	0.179	0.010	"	0.200	ND	89.5	70-130			
o-Xylene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
1,2,4-Trimethylbenzene	0.0846	0.0050	"	0.100	ND	84.6	70-130			
1,3,5-Trimethylbenzene	0.0856	0.0050	"	0.100	ND	85.6	70-130			
Naphthalene	0.0932	0.0038	"	0.100	ND	93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0332		"	0.0400		82.9	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.6	50-150			

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6855 W. 119th Ave.  
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Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

**Summit Scientific**

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

**Batch BHJ0775 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BHJ0775-MSD1)</b>	<b>Source: 2410298-30</b>			Prepared: 10/18/24 Analyzed: 10/19/24						
Benzene	0.0873	0.0020	mg/kg	0.100	ND	87.3	70-130	3.92	30	
Toluene	0.0834	0.0050	"	0.100	ND	83.4	70-130	2.10	30	
Ethylbenzene	0.0867	0.0050	"	0.100	ND	86.7	70-130	1.27	30	
m,p-Xylene	0.178	0.010	"	0.200	ND	88.9	70-130	0.757	30	
o-Xylene	0.0906	0.0050	"	0.100	ND	90.6	70-130	0.232	30	
1,2,4-Trimethylbenzene	0.0849	0.0050	"	0.100	ND	84.9	70-130	0.354	30	
1,3,5-Trimethylbenzene	0.0869	0.0050	"	0.100	ND	86.9	70-130	1.56	30	
Naphthalene	0.0953	0.0038	"	0.100	ND	95.3	70-130	2.16	30	
Surrogate: 1,2-Dichloroethane-d4	0.0351		"	0.0400		87.8	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	50-150			

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHJ0770 - EPA 3550A**

**Blank (BHJ0770-BLK1)**

Prepared: 10/18/24 Analyzed: 10/19/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.4	30-150				

**LCS (BHJ0770-BS1)**

Prepared: 10/18/24 Analyzed: 10/19/24

C10-C28 (DRO)	512	50	mg/kg	500		102	70-130				
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102	30-150				

**Matrix Spike (BHJ0770-MS1)**

Source: 2410298-30

Prepared: 10/18/24 Analyzed: 10/19/24

C10-C28 (DRO)	510	50	mg/kg	500	ND	102	70-130				
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.0	30-150				

**Matrix Spike Dup (BHJ0770-MSD1)**

Source: 2410298-30

Prepared: 10/18/24 Analyzed: 10/19/24

C10-C28 (DRO)	465	50	mg/kg	500	ND	93.1	70-130	9.11	20		
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		92.4	30-150				

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

**Summit Scientific**

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

**Batch BHJ0821 - EPA 5030 Soil MS**

**Blank (BHJ0821-BLK1)**

Prepared: 10/21/24 Analyzed: 10/22/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0223		"	0.0333	66.9	40-150				
Surrogate: Fluoranthene-d10	0.0273		"	0.0333	82.0	40-150				

**LCS (BHJ0821-BS1)**

Prepared: 10/21/24 Analyzed: 10/23/24

Acenaphthene	0.0288	0.00500	mg/kg	0.0333	86.3	31-137				
Anthracene	0.0288	0.00500	"	0.0333	86.5	30-120				
Benzo (a) anthracene	0.0301	0.00500	"	0.0333	90.3	30-120				
Benzo (a) pyrene	0.0282	0.00500	"	0.0333	84.5	30-120				
Benzo (b) fluoranthene	0.0325	0.00500	"	0.0333	97.4	30-120				
Benzo (k) fluoranthene	0.0281	0.00500	"	0.0333	84.4	30-120				
Chrysene	0.0267	0.00500	"	0.0333	80.2	30-120				
Dibenz (a,h) anthracene	0.0186	0.00500	"	0.0333	55.7	30-120				
Fluoranthene	0.0296	0.00500	"	0.0333	88.7	30-120				
Fluorene	0.0279	0.00500	"	0.0333	83.7	30-120				
Indeno (1,2,3-cd) pyrene	0.0156	0.00500	"	0.0333	46.7	30-120				
Pyrene	0.0299	0.00500	"	0.0333	89.7	35-142				
1-Methylnaphthalene	0.0250	0.00500	"	0.0333	74.9	35-142				
2-Methylnaphthalene	0.0241	0.00500	"	0.0333	72.2	35-142				
Surrogate: 2-Methylnaphthalene-d10	0.0238		"	0.0333	71.3	40-150				
Surrogate: Fluoranthene-d10	0.0300		"	0.0333	90.0	40-150				

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Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

**Summit Scientific**

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

**Batch BHJ0821 - EPA 5030 Soil MS**

<b>Matrix Spike (BHJ0821-MS1)</b>	<b>Source: 2410302-01</b>			Prepared: 10/21/24 Analyzed: 10/23/24					
Acenaphthene	0.0267	0.00500	mg/kg	0.0333	ND	80.1	31-137		
Anthracene	0.0276	0.00500	"	0.0333	ND	82.9	30-120		
Benzo (a) anthracene	0.0293	0.00500	"	0.0333	ND	87.9	30-120		
Benzo (a) pyrene	0.0280	0.00500	"	0.0333	ND	83.9	30-120		
Benzo (b) fluoranthene	0.0321	0.00500	"	0.0333	ND	96.2	30-120		
Benzo (k) fluoranthene	0.0272	0.00500	"	0.0333	ND	81.7	30-120		
Chrysene	0.0258	0.00500	"	0.0333	ND	77.5	30-120		
Dibenz (a,h) anthracene	0.0193	0.00500	"	0.0333	ND	58.0	30-120		
Fluoranthene	0.0286	0.00500	"	0.0333	ND	85.9	30-120		
Fluorene	0.0248	0.00500	"	0.0333	ND	74.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333	ND	49.5	30-120		
Pyrene	0.0298	0.00500	"	0.0333	ND	89.3	35-142		
1-Methylnaphthalene	0.0253	0.00500	"	0.0333	ND	75.8	15-130		
2-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.4	15-130		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>72.8</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0287</i>		<i>"</i>	<i>0.0333</i>		<i>86.0</i>	<i>40-150</i>		

<b>Matrix Spike Dup (BHJ0821-MSD1)</b>	<b>Source: 2410302-01</b>			Prepared: 10/21/24 Analyzed: 10/23/24					
Acenaphthene	0.0255	0.00500	mg/kg	0.0333	ND	76.6	31-137	4.51	30
Anthracene	0.0264	0.00500	"	0.0333	ND	79.2	30-120	4.60	30
Benzo (a) anthracene	0.0280	0.00500	"	0.0333	ND	84.1	30-120	4.44	30
Benzo (a) pyrene	0.0261	0.00500	"	0.0333	ND	78.3	30-120	6.96	30
Benzo (b) fluoranthene	0.0304	0.00500	"	0.0333	ND	91.2	30-120	5.40	30
Benzo (k) fluoranthene	0.0262	0.00500	"	0.0333	ND	78.7	30-120	3.76	30
Chrysene	0.0248	0.00500	"	0.0333	ND	74.5	30-120	3.94	30
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	12.7	30
Fluoranthene	0.0272	0.00500	"	0.0333	ND	81.7	30-120	5.01	30
Fluorene	0.0245	0.00500	"	0.0333	ND	73.6	30-120	1.09	30
Indeno (1,2,3-cd) pyrene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	12.9	30
Pyrene	0.0296	0.00500	"	0.0333	ND	88.8	35-142	0.623	30
1-Methylnaphthalene	0.0234	0.00500	"	0.0333	ND	70.3	15-130	7.52	50
2-Methylnaphthalene	0.0223	0.00500	"	0.0333	ND	66.8	15-130	8.04	50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0219</i>		<i>"</i>	<i>0.0333</i>		<i>65.7</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0273</i>		<i>"</i>	<i>0.0333</i>		<i>81.8</i>	<i>40-150</i>		

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Tasman Geosciences  
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Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

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

**Batch BHJ0957 - EPA 3050B**

**Blank (BHJ0957-BLK1)**

Prepared: 10/23/24 Analyzed: 10/24/24

Boron ND 2.00 mg/L

**LCS (BHJ0957-BS1)**

Prepared: 10/23/24 Analyzed: 10/24/24

Boron 5.06 2.00 mg/L 5.00 101 80-120

**Duplicate (BHJ0957-DUP1)**

Source: 2410182-03

Prepared: 10/23/24 Analyzed: 10/24/24

Boron 0.167 2.00 mg/L 0.209 22.3 20 QR-01

**Matrix Spike (BHJ0957-MS1)**

Source: 2410182-03

Prepared: 10/23/24 Analyzed: 10/24/24

Boron 4.87 2.00 mg/L 4.98 0.209 93.5 75-125

**Matrix Spike Dup (BHJ0957-MSD1)**

Source: 2410182-03

Prepared: 10/23/24 Analyzed: 10/24/24

Boron 4.99 2.00 mg/L 4.98 0.209 96.0 75-125 2.47 25

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Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

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

**Batch BHJ1014 - EPA 3050B**

**Blank (BHJ1014-BLK1)**

Prepared & Analyzed: 10/24/24

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

**LCS (BHJ1014-BS1)**

Prepared & Analyzed: 10/24/24

Arsenic	38.6	0.200	mg/kg wet	41.3	93.5	80-120
Barium	39.3	0.400	"	41.3	95.2	80-120
Cadmium	1.89	0.200	"	2.07	91.5	80-120
Copper	41.3	0.400	"	41.3	99.8	80-120
Lead	19.0	0.200	"	20.7	91.7	80-120
Nickel	41.0	0.400	"	41.3	99.2	80-120
Silver	1.91	0.0200	"	2.07	92.7	80-120
Zinc	40.7	0.400	"	41.3	98.5	80-120
Selenium	4.30	0.260	"	4.13	104	80-120

**Duplicate (BHJ1014-DUP1)**

Source: 2410299-07

Prepared & Analyzed: 10/24/24

Arsenic	2.96	0.200	mg/kg dry	2.93	1.29	20
Barium	103	0.400	"	96.7	6.56	20
Cadmium	0.255	0.200	"	0.233	9.05	20
Copper	6.86	0.400	"	6.61	3.67	20
Lead	8.67	0.200	"	8.17	5.92	20
Nickel	6.71	0.400	"	6.55	2.43	20
Silver	0.0454	0.0200	"	0.0465	2.47	20
Zinc	24.7	0.400	"	24.3	1.59	20
Selenium	ND	0.260	"	ND		20

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

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

**Batch BHJ1014 - EPA 3050B**

**Matrix Spike (BHJ1014-MS1)**

Source: 2410299-07

Prepared & Analyzed: 10/24/24

Arsenic	45.7	0.200	mg/kg dry	47.8	2.93	89.6	75-125			
Barium	137	0.400	"	47.8	96.7	84.0	75-125			
Cadmium	2.40	0.200	"	2.39	0.233	90.7	75-125			
Copper	34.6	0.400	"	47.8	6.61	58.5	75-125			QM-05
Lead	29.3	0.200	"	23.9	8.17	88.5	75-125			
Nickel	34.8	0.400	"	47.8	6.55	59.1	75-125			QM-05
Silver	2.15	0.0200	"	2.39	0.0465	87.8	75-125			
Zinc	54.0	0.400	"	47.8	24.3	62.1	75-125			QM-05
Selenium	4.71	0.260	"	4.78	ND	98.5	75-125			

**Matrix Spike Dup (BHJ1014-MSD1)**

Source: 2410299-07

Prepared & Analyzed: 10/24/24

Arsenic	49.0	0.200	mg/kg dry	49.0	2.93	94.1	75-125	6.95	25	
Barium	147	0.400	"	49.0	96.7	103	75-125	7.20	25	
Cadmium	2.58	0.200	"	2.45	0.233	95.7	75-125	7.02	25	
Copper	36.3	0.400	"	49.0	6.61	60.7	75-125	4.89	25	QM-05
Lead	32.0	0.200	"	24.5	8.17	97.1	75-125	8.54	25	
Nickel	36.3	0.400	"	49.0	6.55	60.7	75-125	4.18	25	QM-05
Silver	2.34	0.0200	"	2.45	0.0465	93.8	75-125	8.83	25	
Zinc	56.3	0.400	"	49.0	24.3	65.2	75-125	4.11	25	QM-05
Selenium	5.06	0.260	"	4.90	ND	103	75-125	7.14	25	

**Batch BHJ1015 - EPA 3050B**

**Blank (BHJ1015-BLK1)**

Prepared & Analyzed: 10/24/24

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

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6855 W. 119th Ave.  
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Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

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

**Batch BHJ1015 - EPA 3050B**

**LCS (BHJ1015-BS1)**

Prepared & Analyzed: 10/24/24

Arsenic	41.5	0.200	mg/kg wet	41.3	100	80-120				
Barium	41.5	0.400	"	41.3	100	80-120				
Cadmium	2.03	0.200	"	2.07	98.4	80-120				
Copper	44.1	0.400	"	41.3	107	80-120				
Lead	20.6	0.200	"	20.7	99.6	80-120				
Nickel	43.6	0.400	"	41.3	106	80-120				
Silver	2.07	0.0200	"	2.07	100	80-120				
Zinc	43.5	0.400	"	41.3	105	80-120				
Selenium	4.57	0.260	"	4.13	111	80-120				

**Duplicate (BHJ1015-DUP1)**

Source: 2410302-13

Prepared & Analyzed: 10/24/24

Arsenic	3.43	0.200	mg/kg dry	4.18			19.7	20		
Barium	93.7	0.400	"	95.2			1.57	20		
Cadmium	0.291	0.200	"	0.315			8.21	20		
Copper	6.98	0.400	"	6.98			0.0142	20		
Lead	9.90	0.200	"	10.7			7.69	20		
Nickel	6.10	0.400	"	6.36			4.18	20		
Silver	0.0835	0.0200	"	0.0920			9.66	20		
Zinc	38.6	0.400	"	25.1			42.3	20		QR-03
Selenium	0.204	0.260	"	0.206			1.21	20		

**Matrix Spike (BHJ1015-MS1)**

Source: 2410302-13

Prepared & Analyzed: 10/24/24

Arsenic	43.6	0.200	mg/kg dry	42.7	4.18	92.3	75-125			
Barium	123	0.400	"	42.7	95.2	66.4	75-125			QM-05
Cadmium	2.38	0.200	"	2.14	0.315	96.5	75-125			
Copper	30.0	0.400	"	42.7	6.98	53.8	75-125			QM-05
Lead	29.4	0.200	"	21.4	10.7	87.6	75-125			
Nickel	29.3	0.400	"	42.7	6.36	53.7	75-125			QM-05
Silver	2.16	0.0200	"	2.14	0.0920	96.8	75-125			
Zinc	47.2	0.400	"	42.7	25.1	51.6	75-125			QM-05
Selenium	4.54	0.260	"	4.27	0.206	101	75-125			

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Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

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

**Batch BHJ1015 - EPA 3050B**

Matrix Spike Dup (BHJ1015-MSD1)	Source: 2410302-13			Prepared & Analyzed: 10/24/24							
Arsenic	45.4	0.200	mg/kg dry	44.1	4.18	93.5	75-125	4.00	25		
Barium	133	0.400	"	44.1	95.2	84.9	75-125	7.11	25		
Cadmium	2.44	0.200	"	2.20	0.315	96.2	75-125	2.45	25		
Copper	30.7	0.400	"	44.1	6.98	53.7	75-125	2.29	25		QM-05
Lead	29.9	0.200	"	22.0	10.7	87.0	75-125	1.63	25		
Nickel	30.2	0.400	"	44.1	6.36	54.0	75-125	2.95	25		QM-05
Silver	2.26	0.0200	"	2.20	0.0920	98.5	75-125	4.74	25		
Zinc	47.7	0.400	"	44.1	25.1	51.1	75-125	0.974	25		QM-05
Selenium	4.82	0.260	"	4.41	0.206	105	75-125	5.99	25		

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Project: Chevron - Hoffman C02-65HN Tank Battery  
Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

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

**Batch BHJ1009 - 3060A Mod**

**Blank (BHJ1009-BLK1)**

Prepared & Analyzed: 10/24/24

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BHJ1009-BS1)**

Prepared & Analyzed: 10/24/24

Chromium, Hexavalent      26.5      0.30    mg/kg wet      25.0      106      80-120

**Duplicate (BHJ1009-DUP1)**

**Source: 2410302-01**

Prepared & Analyzed: 10/24/24

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BHJ1009-MS1)**

**Source: 2410302-01**

Prepared & Analyzed: 10/24/24

Chromium, Hexavalent      28.5      0.30    mg/kg dry      27.2      ND      105      75-125

**Matrix Spike Dup (BHJ1009-MSD1)**

**Source: 2410302-01**

Prepared & Analyzed: 10/24/24

Chromium, Hexavalent      28.9      0.30    mg/kg dry      27.2      ND      106      75-125      1.52      20

Summit Scientific

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Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

**Summit Scientific**

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

**Batch BHJ0839 - General Preparation**

**Blank (BHJ0839-BLK1)**

Prepared: 10/21/24 Analyzed: 10/23/24

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

**LCS (BHJ0839-BS1)**

Prepared: 10/21/24 Analyzed: 10/23/24

Calcium	5.38	0.0500	mg/L wet	5.00	108	70-130				
Magnesium	5.30	0.0500	"	5.00	106	70-130				
Sodium	5.29	0.0500	"	5.00	106	70-130				

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

**Summit Scientific**

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

**Batch BHJ0818 - General Preparation**

Duplicate (BHJ0818-DUP1)	Source: 2410302-01		Prepared: 10/21/24 Analyzed: 10/22/24		
% Solids	91.4	%	91.9	0.532	20

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BHJ0856 - General Preparation**

**Blank (BHJ0856-BLK1)**

Prepared: 10/21/24 Analyzed: 10/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHJ0856-BS1)**

Prepared: 10/21/24 Analyzed: 10/23/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

**Duplicate (BHJ0856-DUP1)**

Source: 2410252-01

Prepared: 10/21/24 Analyzed: 10/23/24

Specific Conductance (EC) 0.141 0.0100 mmhos/cm 0.142 1.06 20

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

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

**Summit Scientific**

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

**Batch BHJ0855 - General Preparation**

**LCS (BHJ0855-BS1)**

Prepared: 10/21/24 Analyzed: 10/23/24

pH	9.14	pH Units	9.18	99.6	95-105
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**Duplicate (BHJ0855-DUP1)**

Source: 2410252-01

Prepared: 10/21/24 Analyzed: 10/23/24

pH	8.71	pH Units	8.70	0.115	20
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Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Hoffman C02-65HN Tank Battery

Project Number: UWRWE-A1858-ABN  
Project Manager: AJ Engelhardt

**Reported:**  
10/25/24 11:59

### Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference